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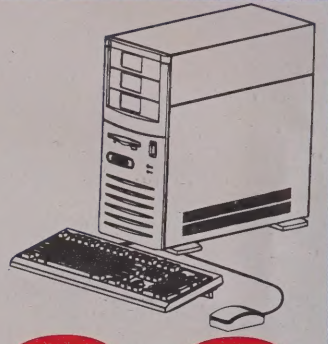

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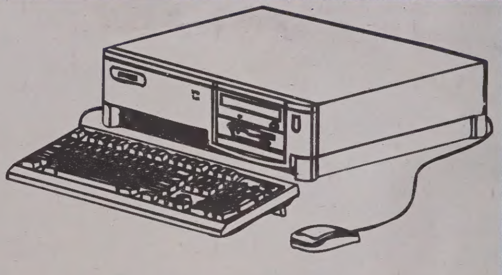

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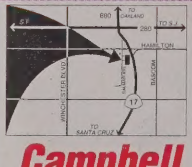
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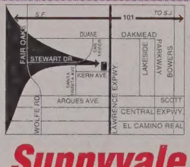
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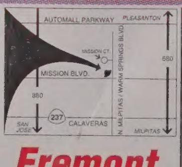
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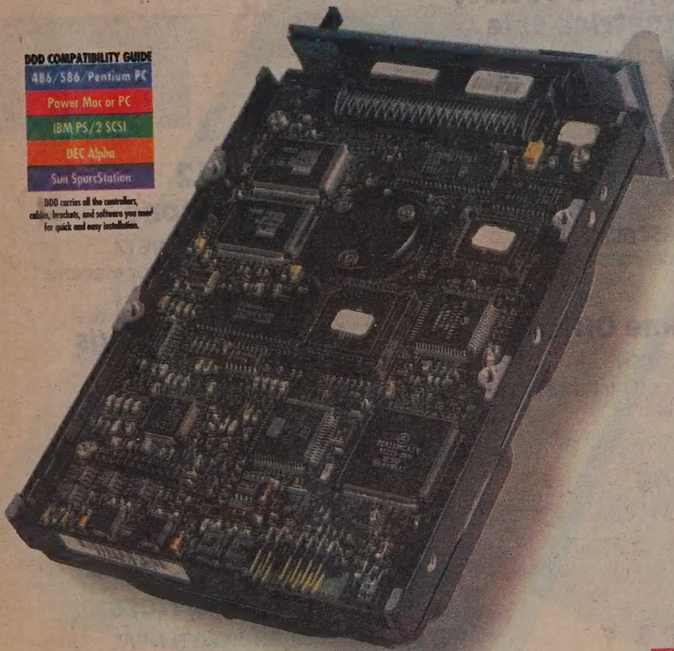

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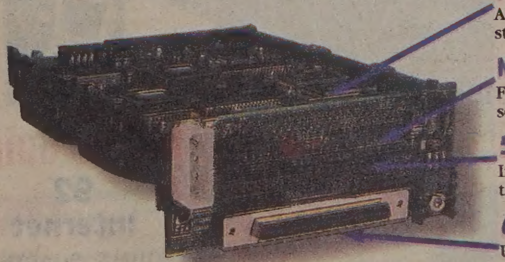

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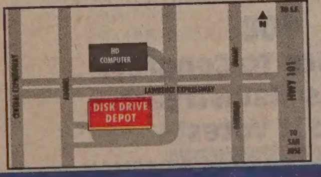
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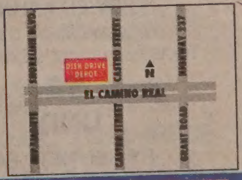
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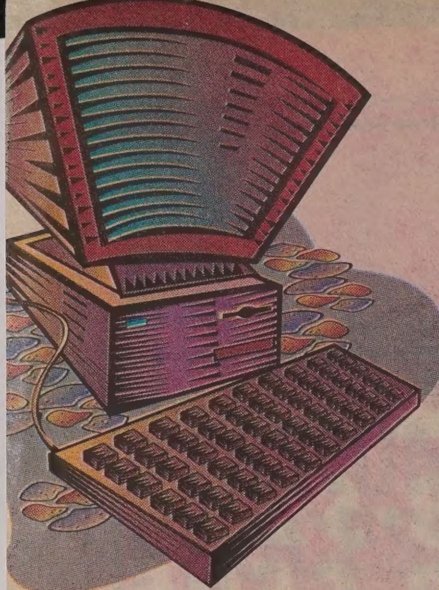

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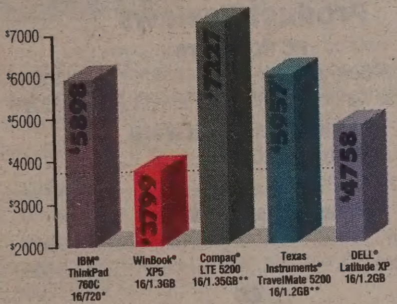

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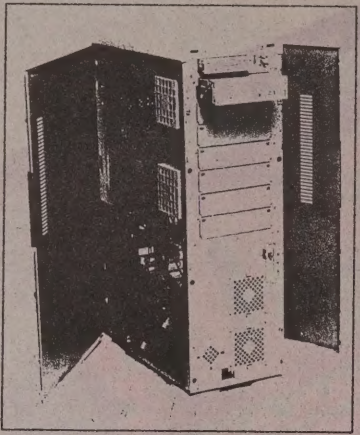

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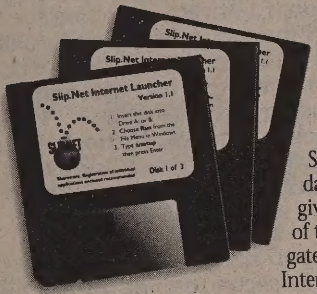

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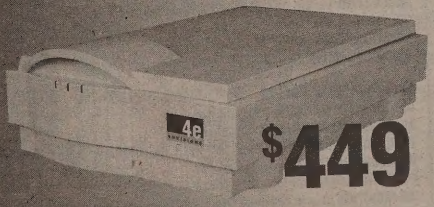

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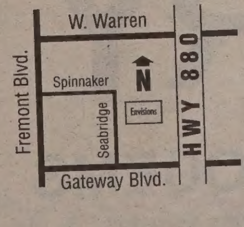

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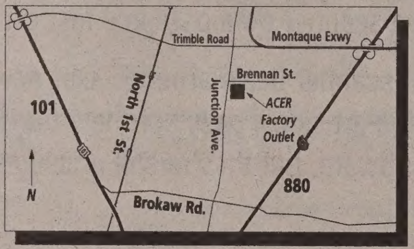

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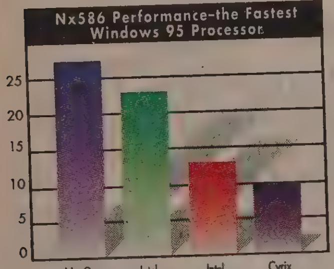

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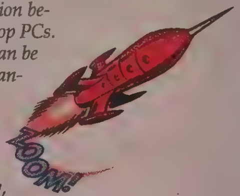

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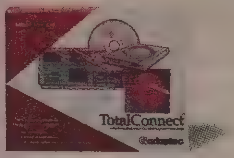

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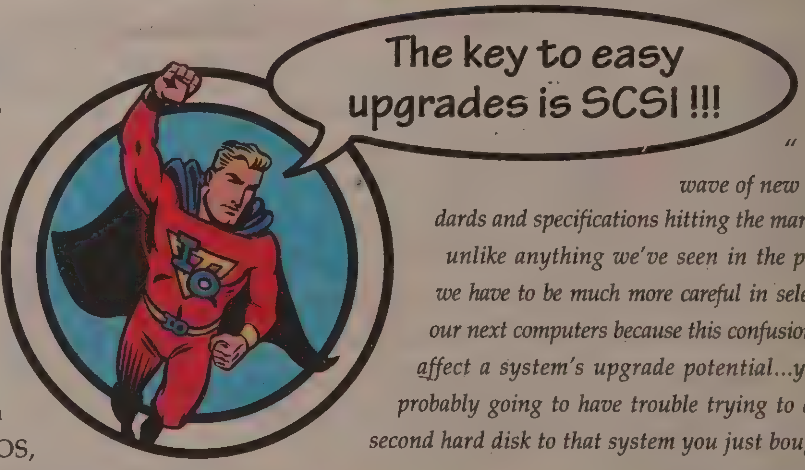
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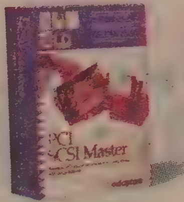

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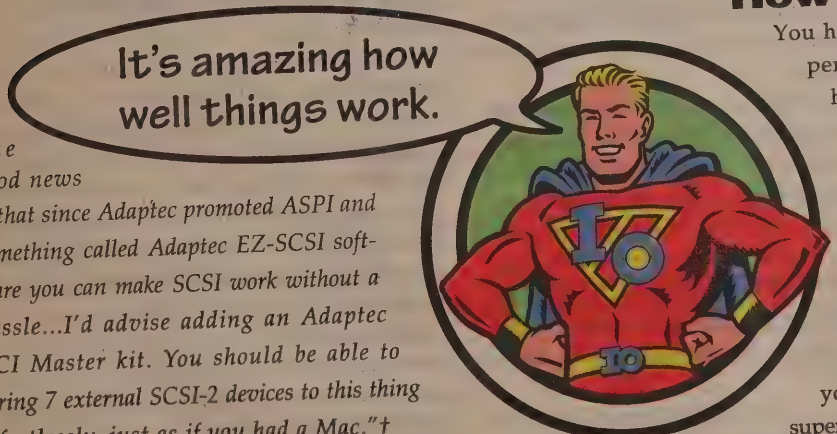
It's amazing how well things work.
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The good news is that since Adaptec promoted ASPI and something called Adaptec EZ-SCSI software you can make SCSI work without a hassle...I'd advise adding an Adaptec PCI Master kit. You should be able to string 7 external SCSI-2 devices to this thing effortlessly, just as if you had a Mac."†

July 1995 PC Magazine

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News and Views

BY PAUL HOFFMAN

Industry Insights

Apple: Financial Analysts And Reality Distortion Fields

Ah, the wonders of Wall Street. These folks tell you that you should all be investing for the long term, then flip out when a company with the world's most loyal customers has a bad quarter or two. And the financial press, always eager to make someone look bad, loves to find companies that are "directionless" or "mis-managed."

One of the problems of writing for a monthly like *MicroTimes* is that the news that I write could be completely wrong by the time that you read it. However, in this case, the lag between when I write and when you read is actually a blessing, because it's a good reminder that for all the near-daily uproar in the press, Apple has not had any sudden turns for the worse. All of Wall Street's urgency about Apple needing to make a radical change (like being bought by another company) is narrow-minded, short-term thinking.

This is not to say that everything is rosy at Apple, or that it was all that rosy a few months ago. Apple's got some big problems, but they're the same big problems they've had for years. What most people forget is that Apple's big problems have always been offset by some big advantages, such as a very loyal customer base, higher prices, good research, and incredible brand awareness. One or two bad quarters shouldn't mean much to Apple's customers.

> **All of Wall Street's urgency about Apple needing to make a radical change (like being bought by another company) is narrow-minded, short-term thinking.**

Price Swings Are Nothing New

Apple's stock price has been going down for months: Should you worry? Well, no, not unless you own Apple stock and intend to sell it soon. Apple's stock has gone down many times in the past decade; it's gone up just as many times. Many people have made lots of money buying Apple stock in the mid-twenties and selling in the high thirties and mid-forties, sometimes more than once.

Even if Wall Street has no confidence in Apple as a company, that's not really all that important to Apple users. Apple has been shunned before, and still has about the same market share it's had for the past ten years, somewhere around 8%. Apple has proven that it doesn't need more market share to do well, although it certainly wouldn't mind having more people, particularly first-time computer buyers, purchasing Macintoshes.

The price of Apple's stock is heavily dependent on the short-term hopes of traders who think that Apple is like other high-tech stocks. But Apple isn't like other PC makers, in that Apple also creates the operating system; all delays in its software have a much greater effect on its hardware sales than, say, Microsoft's delay in delivering Windows 95 had on Dell's value.

Apple's stock value is not completely insignificant, because it affects the likelihood that someone will buy the company. Of course, a lower stock price means that more companies will consider Apple an attractive takeover target. But anyone who thinks Apple's internal, long-term value has changed with its stock price has too short of an attention span to run a company with a user base like Apple's.

The Mysteries Of Market Share

Further, market share is a nebulous concept. In January, the industry analyst company Dataquest made a big deal of announcing that Apple had been bumped from second place in the market to third by IBM. Of course, the daily press used this as "proof" of Apple's problems. A look at the numbers reveals that Apple and IBM have sold essentially the same number of computers for both 1994 and 1995.

Assuming that Dataquest's numbers are accurate (which is probably not wise, given their methods for guessing), would you really say that Apple's transition from .04% ahead of IBM in 1994 to .2% behind in 1995 is really all that significant? With a reasonable margin of error, it's probably better to say that the two companies sell the same number of computers.

The other main problem with comparing Apple's sales with those of Compaq, IBM, and Packard Bell (the other top sellers) is that Apple's

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customers are much more loyal to Apple than those of the other manufacturers, with the possible exception of Compaq. They have to be: for all the practical purposes, you can't buy a faster Macintosh from anyone else. Large corporations have a tendency to buy from many PC vendors, but Apple's customers keep buying from Apple.

This situation can work both to Apple's advantage and disadvantage. Because Apple makes the hardware and operating system, if a Macintosh is hard to set up, there's only one company to blame. When this happens, if Apple or the user's dealer can get to the root of the problem quickly, the user often feels happier. If you buy a PC and the software seems to not run well, the hardware manufacturer tells you to call Microsoft, and Microsoft says that it must be your hardware. PC users who have lived through this often become happy Apple customers.

Would You Buy This Company?

In late January, as I write this, the rumors were hot and heavy that Apple and Sun were "in talks" about Sun Microsystems buying Apple. The business press said that it was almost a done deal, then a week later when no sale had been made, the business press said it was because Apple wanted too much money.

However, the question of what Sun, or anybody for that matter, would do once they owned Apple was rarely discussed.

It's almost as if we're back to the '80s, when people believed that any corporation could own and run any other. The merger mania of the '80s caused more good companies to lose their markets and more bad debt to be floated than at any other time in history. Some companies can be run by outsiders easily: Apple isn't one of them.

Apple is quirky, self-centered, and proud (some people would accuse Macintosh owners of the same thing...). It spends more on research and development than almost any other PC company. For almost twenty years, it has gone against the tide of standardized computers, following the pack, and mindless corporate positioning. Apple employees have always had a great deal of autonomy.

Thus, when Wall Street says that the list of possible buyers for Apple include Japanese giants and monolithically stodgy corporations like IBM, they ignore the fact that just because you can buy something doesn't mean you can run it. Apple's employees, who are already leaving in droves, would never put up with corporate rules that exist for no other purpose than to make the executives happy.

Sun's problems with owning Apple would be completely different. Sun is too much like Apple and has too many of the same problems Apple has to make a purchase worthwhile. Like Apple, Sun can never figure out what business it is in. Like Apple, Sun keeps shifting its focus from the high end to the low end to the network to software and back to the high end. The employees of the two companies would probably get along reasonably well, but it's unlikely that Sun would bring much value to Apple or vice versa.

Survival Among Sharks

Apple has gotten bad press before and lived

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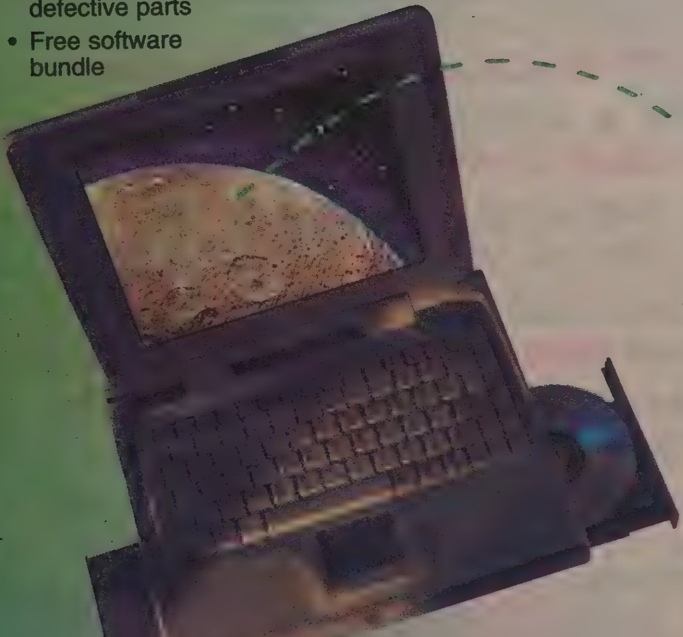

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Insights *continued...*

through it just fine. The business press attacks Apple, its stock goes down, Apple fires 10% of its workforce, morale goes down, some new products come out that remind Apple's core customers why they like the company, sales rebound a bit, and the press forgets what it was all about. Ho hum.

But this isn't to say that everything at Apple is fine. This time, the press attacks were sharp enough to not only drive its stock down, it also caused Standard & Poor's, one of the major companies that rate corporate bonds, to reduce the rating on Apple's senior debt from barely acceptable to junk status. (You gotta love the names they give these ratings: Apple's debt went from "double-B-minus" to "triple-B.") Worse yet, the basic company debt rating went from "A-2" to "B," meaning that it will cost Apple more to float new bonds.

It's not clear whether Standard & Poor's did this because they believe Apple's in trouble or in order to help force Apple out of independence. S&P specifically said that it might raise the ratings again "if Apple is acquired by a stronger entity." This harkens back to the failed '80s mentality that all a company needs to get better results is to have a bigger parent company.

Many press analysts, after listening too much to Wall Street, started asking whether or not people should consider switching away from Apple computers towards PCs. It is a tad absurd to think that Apple's dropping stock price is somehow going to make Macintoshes harder to use or learn, or make PCs any easier. Even Bill Gates says that he's perfectly happy to keep making Macintosh software because of the strong market for it.

Which is not to say that everything's fine at Apple. The operating system upgrade that was supposed to appear in 1995 is now not due until late this year, if then. At the recent shareholders meeting, Apple's CEO and board chairman spent hours blaming external circumstances and promising that this time the company shakeup would really make things work.

If anything, it's Apple's marketing lies that will get it into the most trouble this year. Apple says it's trying to get partners to sell non-Apple hardware with the Macintosh operating system, but it still has only made token gestures towards licensing by only letting small companies in on the market. Worse yet, Apple keeps claiming that Macs make great Internet servers, when Apple can't even ship a stable Internet mail server or domain name server, and Open Transport, Apple's new networking system, still can barely handle real Internet connections.

But these things won't kill Apple, just as its lateness and bumbling on some things in the past haven't. Nor should these make Apple any more attractive as a takeover target, since they are unrelated to how another company could work with Apple's culture.

If someone does buy Apple, they had better be prepared for a major turnover in key staff (not just the executives who have already left); also, it's unlikely that the new Apple would draw the same customers as the old Apple has for over a decade. ■

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Stock Chart continued on page 198

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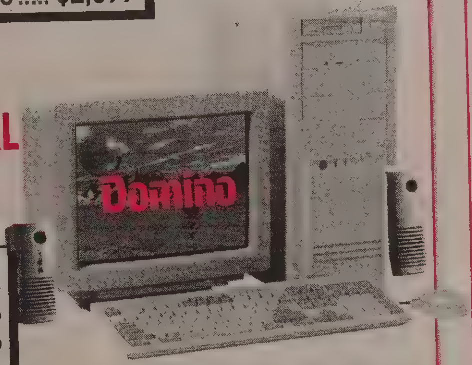

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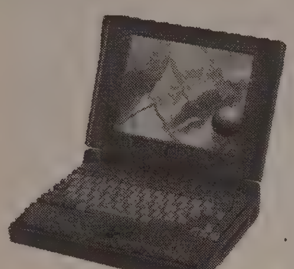

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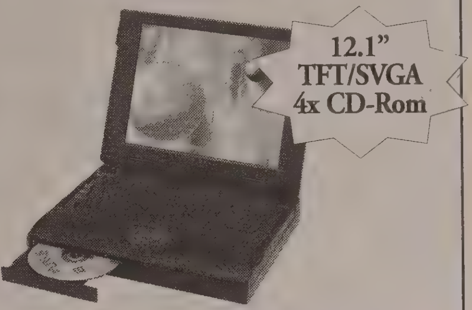

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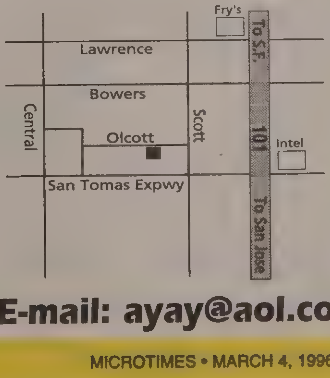

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REALIZABLE FANTASIES • BY JIM WARREN

FBI Demands Wiretap Access To 1% Of Calls

Why, If There Are Less Than 850 *Court-Authorized* Wiretaps Yearly?

My November 1994 and January 1995 columns reported on the half-billion-dollar National Wiretap System (H.R. 4922) enacted literally in the dark of night with essentially no substantive hearings and no debate, by voice vote in the House and by unanimous consent in the Senate, as our "representatives" rushed to adjourn so they could return home and seek re-election.

In proper congressional doublespeak, the law's official title is the "Communications Assistance for Law Enforcement Act" (CALEA, now Public Law 103-414; 47 U.S.C. 1001-1010). It was diligently sought by the Clinton administration, co-authored by Sen. Leahy (D-VT) and Rep. Don Edwards (D-CA), appropriately introduced on the 20th anniversary of Nixon's resignation after his failed attempt to bug his political opponents, and rammed through the Democratic Congress in less than two months.

> **For some of the "most densely populated areas, which have historically been areas of high electronic surveillance activity," they demanded that phone companies be able to "expeditiously increase" wiretap circuits for "simultaneous...interceptions equal to 1% of the engineered capacity..."**

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"(3) *delivering intercepted communications... such that they may be transmitted... to a location other than the premises of the carrier;* and

"(4) facilitating authorized communications interceptions... *unobtrusively* and... *in a manner that protects... information regarding the government's interception...*"
(Italicis added.)

The Clinton administration waited until the middle of last fall's budget battle to quietly publish the required notice of their implementation demands in the October 16th *Federal Register,* and benevolently allowed 30 days for public comment, which was later extended through the holidays into January at the demand of some phone companies (Volume 60, Number 199, pp. 53643-53646; available via GPO Access, *wais.access.gpo.gov*).

We Knew It'd be Bad, But...

The *Federal Register* publication is a notice of "the maximum **capacity *required* to accommodate all of the [wiretaps] that the Attorney General estimates that government agencies... may conduct and use *simultaneously*,**" by October 25, 1998 (emphasis added).

It states: "The capacity figures... were derived as a result of a thorough analysis of electronic surveillance needs. Information regarding electronic surveillance activities [was] obtained from telecommunications carriers, law enforcement, US District Courts, State Courts, State Attorneys General, and State District Attorneys to establish a historical baseline of activity."

The administration stated its "needs" as a **"percentage of the engineered capacity of the equipment,** facilities, and services... Engineered capacity refers to the maximum number of subscribers that can be served..." (Emphasis added.)

In other words, the capacity demands are percentages of the *maximum* number of phone calls that are possible simultaneously in a given phone company's installation. But phone usage almost never reaches maximum capacity except during major regional disasters.

At Least Wiretap One Call per 400

One of three wiretap capacities in different geographic regions is "needed," but which regions "need" which capacities is not disclosed.

For the most crime-free regions, "Each telecommunications carrier must ensure that it can expeditiously increase its capacity... [to allow] a number of simultaneous... interceptions equal to 0.25% of the engineered capacity..."

That's "simultaneously" wiretapping one call in every 400—if phone use is saturating system capacity!

Metro Areas: Wiretap One Call per 100

For some of the "most densely populated areas, which have historically been areas of high electronic surveillance activity," phone companies will be able to "expeditiously increase" wiretap circuits for "simultaneous... interceptions equal to 1% of the engineered capacity..."

The New York Times discovered the notice

continued on page 27

CHINON

Advanced 24-BIT

Color Digital Camera

3x power zoom lens w/macro
3 selectable resolution modes
Multi-auto focus/Auto flash
Accepts optional flash memory cards
1MB built-in picture memory

Special Offer: Value Pack $499.00 value
(See dealer for details)
- 2MB Flash Memory Card
- Photo Studio™ Editing Software For Windows
- Color It!™ Editing Software For Macintosh
- CHINON "Carry All" Case

"The Chinon is the clear winner."
-PC Magazine December 19, 1995

"Chinon's ES-3000 is the filmless camera to beat."
-PC Magazine October 24, 1995

Immersive 3D Visual Experience

CyberShades

The most affordable Virtual Reality experience

Adds 3D impact to games
Works with any PC-compatible
Lightweight ergonomic design

CyberShades is [illegible] IBM PC or compatible running MS-DOS into a complete 3D viewing system. CyberShades enables you to display [illegible] video, photographic, computer animation, and graphic images.

Installing CyberShades is a simple procedure and should only take a few minutes. It plugs into the printer port.

CyberShades game collection includes over $100.00 in software.
- Descent: Destination Saturn by Interplay
- Wolfenstein 3D by Apogee software
- Depth Dwellers by Tri-Soft
- Word Rescue by Redwood Games
- Math Rescue by Redwood Games
- Virtual Slingshot by Virtual Entertainment

Computer Attic Super Center
2750 El Camino Real
Redwood City,
415-363-8100

Fry's Electronics
340 Portage Road
Palo Alto,
415-496-6000

NCA Computer Products
1202 Kifer Rd.
Sunnyvale
408-739-9010

Total Technologies
2225 El Camino Real
Santa Clara
408-247-4448

M&P Computers
1270 Oakmead Pkwy.,
Suite 111,
Sunnyvale
408-738-85[illegible]

Chinon America Inc.
16760 Spring Hill Court
Morgan Hill
408-776-1120

WHO WINS? ENTER

SURE RUN WINDOWS 9

486 Green ISA VLB

- 486 ISA VLB 256K Cache EPA Green Motherboard
- 486 CPU Processor w/ Cooling Fan
- 4MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- 850MB Conner CFS850 Enhanced IDE HD
- VLB IDE Controller w/ 2 Serials, 1 Parallel
- Trident 9440 VLB 1MB Windows Accelerator
- 14" ShamRock 1Kx768NI Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard
- 3 Button MS Compatible Mouse w/ Pad

** Upgrade to PCI configuration for $50

100DX4	$755
120DX4	$770
133DX4	$785
CySX100	$805
CySX120	$820

Pentium Intel Endeavor 2

- Pentium Intel-Made Endeavor 2 EV2 Triton Chipset PCI 256K Pipelined Sync Cache, 75 to 166MHz CPU w/VRM, upto 512K Pipelined Sync Cache, FastPage/EDO upto 128MB, w/4 PCI BusMaster E-IDE, 2x 16550 UARTS & ECP/EPP, built-in Sound Blaster Vibra 16 w/Line-in/out,MIDI port, WaveTable Socket
- Genuine Intel Pentium Processor w/ Cooling Fan
- 16MB 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- 1.28GB Quantum FireBall Mode 4 E-IDE HD
- Toshiba FM-5402B QuadSpd IDE 256K CD-ROM
- Diamond Stealth64 Video DRAM 2MB 2000 Series
- 15" Hitachi SuperScan NS1587 1280x1KNI 0.28DP Monitor
- Premium Digital Medium Tower 230W PS
- KeyTronic 104 Key Win95 Keyboard
- MicroSoft Ergonomic Mouse w/ Pad

** Call for 512K Pipelined Sync Cache upgrades

100MHz	$1665
120MHz	$1719
133MHz	$1789
150MHz	$1899
166MHz	$2109

Pentium Intel Zappa

- Pentium Intel ZP Zappa Triton Chipset PCI 256K Async Motherboard w/4 BusMastering PCI Enhanced IDE ports, 2x16550 UART's & ECP/EPP
- Genuine Intel Pentium Processor w/ Cooling Fan
- 8MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- 850MB Conner CFS850 Enhanced IDE HD
- Trident 9440 PCI 1MB Windows Accelerator
- 14" ShamRock 1Kx768NI Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard
- 3 Button MS Compatible Mouse w/ Pad

** Call for EDO Memory Upgrade

100MHz	$1075
120MHz	$1130
133MHz	$1200

P5 Ultra Wide SCSI

ULTRA WIDE

40MB/S [illegible] Ready!

- Quick Pentium P54TSW2 PCI 512K Pipelined Sync Cache w/ 2940UW Ultra Wide 40MB/s Adaptec 7880 Chipset built-in, 75 to 200MHz CPU w/VRM, FastPage/EDO upto 128MB, w/4 PCI BusMaster E-IDE, 2x16550 UARTS & ECP/EPP, PnP Award Flash BIOS, PS/2 mouse port...
- Genuine Intel Pentium Processor w/ Alarm Cooling Fan
- 16MB 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- Fujitsu 2.1GB M2915QAW 7200RPM 512K Fast Wide HD
- Toshiba XM-5522 SixSpeed IDE CD-ROM /w Audio Cable
- Creative Labs Sound Blaster Vibra 16 Stereo Sound Card
- Diamond Stealth64 Video VRAM 2MB 3000 Series
- 17" ShamRock 1280x1KNI 0.28DP Digital Green Monitor
- Premium Digital Med Tower 230W PS
- KeyTronic 104 Key Win95 Keyboard
- MicroSoft Ergonomic Mouse w/ Pad

100MHz	$256
120MHz	$262
133MHz	$269
150MHz	$281
166MHz	$303

Pentium 200Mhz PCI

- TMC Pentium Triton Chpst PCI 256K Pipelined Sync Cache Mothrbrd supporting 75 to 200MHz CPU w/ Socket 7 & VRM, upto 512K Sync Cache on CELP COAST FastPage/EDO, w/ 4 PCI Bus Master Enhanced IDE, 2x 16550 UARTS & ECP/EPP
- Genuine Intel Pentium Processor w/ Cooling Fan
- 8MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- 1.28GB Quantum FireBall Mode 4 E-IDE HD
- Toshiba FM-5402B QuadSpd IDE 256K CD-ROM
- Creative Labs Sound Blaster Vibra 16 Stereo
- Diamond Stealth64 Video DRAM 2MB 2000 Series
- 15" ShamRock 1280x1KNI Digital Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard
- MicroSoft Ergonomic Mouse w/ Pad

** Call for 512K Pipelined Sync Cache & EDO upgrades

100MHz	$1405
120MHz	$1459
133MHz	$1530
150MHz	$1645
166MHz	$1855

Optional:		
	MS DOS V6.22 and Windows V3.11	$90
	MS DOS V6.22 and Windows for WorkGroup V3.11	$110
	Windows 95 Full Version CD	$120

Asus P6 Pentium Pro

P6 is here!

- ASUS P6 Pentium Pro P/I-P6RP4 w/256K Built-in CPU Cache - Intel ORION DT chipset, w/onbrd BusMaster IDE, HiSpd I/O, FD, PS/2 port, ZIF Socket 8 + VRM, AMI PnP Flash BIOS, FD/ EDO 72Pin SIMM upto 512MB
- Genuine Intel Pentium Pro Processor w/ Cooling Fan
- 32MB 60ns 72Pin FP SIMM RAM
- Adaptec 2940UW Ultra Wide SCSI (40MB/s) Adaptor w/cable
- 1.44MB Floppy Drive
- Fujitsu 2.1GB M2915QAW 7200RPM 512K Fast Wide HD
- Toshiba XM-5522 SixSpeed IDE CD-ROM /w Audio Cable
- Creative Labs Sound Blaster AWE32 PnP Stereo Sound Card
- Matrox MGA Millennium PCI 2MB Window RAM
- 17" ShamRock 1280x1KNI 0.28DP Digital Green Monitor
- Premium Digital Full Tower 250W PS
- KeyTronic 104 Key Win 95 Keyboard
- MicroSoft Ergonomic Mouse w/ Pad

** Win NT 3.51 Workstation/Server - Add $255/$605

150MHz	$448
180MHz	$471
200MHz	$483

OUR SERVICE OUR COMMITMENT

- [illegible] purpose, high resolution video monitor mode tested and continously burned in for 48 hours on all components and finally interactively inspected for trouble-free operation. All systems are to be inspected by customer at pick up time.
- Most advertised standard systems have been pre-built, burn-in tested and are ready to be picked up or delivered within 60 minutes IN FREMONT MAIN OFFICE - Please allow more time for minor configuration changes. Standard delivery time is 72 hours.
- Free delivery area includes local area within 30 minutes driving distance. No delivery on weekends. Delivery out of local area will be charged up to $30 freight.
- Most components come with over 1 year manufacturer warranty - First year will be covered by UMiracle. Warranty after the first year will be covered by component manufacturers.
- While-you-wait immediate service should there be any neccessary warranty repair. If we couldn't solve the problem, another system will be built (at our discretion, if purchased within 30 days.)
- All pickups, repairs, exchanges, upgrades can be done in either Fremont, Belmont or Albany store. Original invoices & records required.

YES!! WE DO NETWORK! EXPERTS ON DUTY! CALL NOW!

LOOKING FOR YOUR DREAM MACHINE AT THE CHEAPEST PRICE? SHOPPING FOR A PC IN THIS RAZAR-THIN-PROFIT INDUSTRY IS DANGEROUS BECAUSE 70% OF THE DEALERS WON'T LIVE TILL THE FOURTH YEAR IN BUSINESS, MOST SELL 3 OR 4 MACHINES A WEEK WITHOUT KNOWING WHAT THEY ARE SELLING AND 99% DON'T WANT TO SEE ANY MACHINE COMING BACK AFTER YOU WALK OUT OF THE DOOR. AT UMIRACLE, WE BUILD HUNDREDS OF PC'S EVERY WEEK, WE TEST EVERY POSSIBLE COMBINATIONS OF SOFTWARE AND HARDWARE FOR COMPATIBILITY, AND WE STAND BEHIND YOUR PC'S LIFETIME LONG! WHY? BECAUSE WE LOVE YOUR PC AS MUCH AS YOU DO! COME BY AND VISIT ONE OF OUR STORES AND YOU WILL FIND OUT WHY YOU WILL BE THE WINNER!

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- 1 Year Parts and Life Time Labor Warranty
- No-on-hold Expertise LifeTime Tech Support
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Whole New Generation of Multimedia Pentium Notebooks

MBOOK 5400 - P5, 11.3" DualScan/10.4" Active Screen, 8MB, 256K Cache
FD, Joystick, [illegible] CDROM, 2MB Video RAM, TouchPad, 16bit Stereo
d, SS/TP/16 ports, Infrared port.

/810MB/1.2GB HD	Dual Scan	Active Matrix
[illegible]Mhz	[illegible]	[illegible]
20Mhz	$2700/$2808/$2998	$2920/$3028/$3218
33Mhz	$2780/$2868/$3078	$3000/$3108/$3298

M 5400 SPECIFICATIONS

entium 75/90/100/120 CPU

lash ROM BIOS

data bus system memory
M memory sockets
rt one bank operation
rt write-back L1-L2 Cache
ible in 8/16/32/MB
level 2 cache memory onboard
orage
one 2.5" 540MB harddrive and up
one removeable 3.5" 1.44MB FDD,
5.25" Double speed Teac CDROM
onal Quad Speed Teac)

PCI VGA sub-system with 2MB VRAM onbrd
vare windows accelerator
anel: 640x480x64K or 800x600x256 colors up to SVGA
TFT up to 16.7M True Color
rt External CRT Resolution up to 1280x1024x256 color
rt LCD/external CRT simultaneous display
VGA DSTN DualScan color LCD
VGA TFT ActiveMatrix color LCD
ystem
speakers and microphone
16bit Stereo Sound compatible with Windows Sound
n & SoundBlaster Pro
usic Synthesizer
Line-out and external microphone jacks

2 PCMCIA type-II slots or 1 type-III slot (type IV)

I/O Interfaces
- Built-in Joystick
- Built-in Speaker
- Built-in Microphone
- 2 x9 pin serial ports (16550 UARTs)
- 1 x25 pin parallel port (EPP/ECP support)
- 1 x15 pin external monitor port
- 1 x 6 pin PS/2 keyboard/mouse port
- Microphone, Line-in/Out, Midi/Game ports
- 1 x100 pin docking station interface

Wireless Link
- Built-in IrDA compatible HP infra-red transmitt module

Keyboard
- 86 keyboard with support for all keys of an AT-enhanced

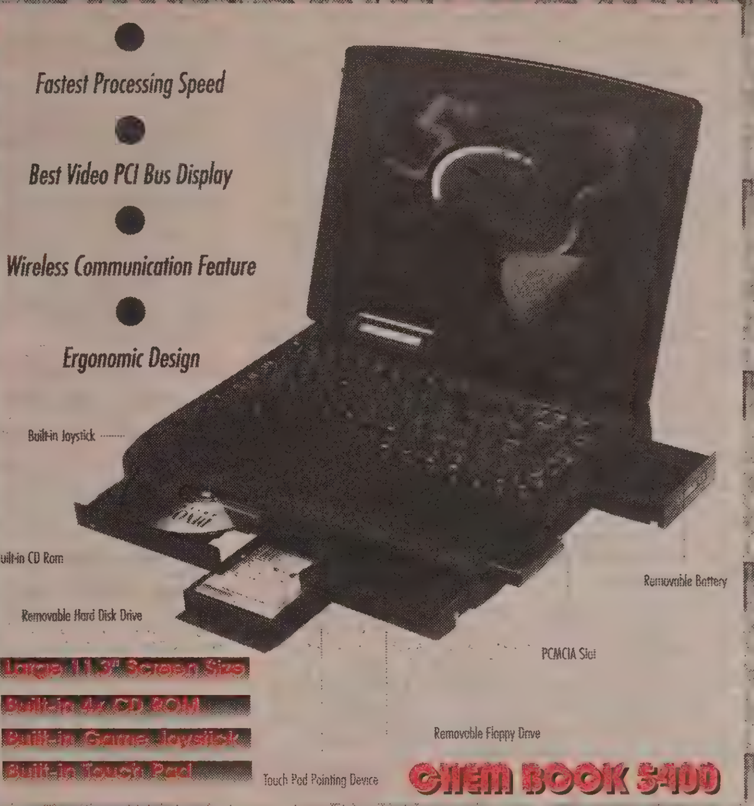
Pointing Device
- Built-in PS/2 capacitive touch-sensitive trackpad

Power System
- CPU Stop Clock
- Auto-sensing 110V-240V AC adaptor
- Suspend to HDD/DRAM
- Global Standby Mode
- Battery Low Spspend
- Battery Resource View
- Optional External Battery 58W

Dimension
- 11.8"(W) x 8.9"(D) x 2.1"(H)

Weight
- 7.7LBS (with battery)

Optional devices:
- CCD Camera Module
- Video + MPEG Module
- Mini Docking Station
- Tuner Box
- Car adaptor



Large 11.3" Screen Size

Built-in 4x CD ROM

Built-in Game Joystick

Built-in Touch Pad

CHEM BOOK 5400

CHEM 5400 Notebook Options

8MB DIMM memory	$356	1.3GB 2.5" IDE HD	$595	External Battery 58W	$175
16MB DIMM Memory	$655	PCMCIA 14.4 Fax/Data	$99	Auto Adaptor 12V	[illegible]
32MB DIMM Memory	[illegible]	PCMCIA 28.8 Fax/Data	[illegible]	[illegible]	[illegible]
540MB 2.5" IDE HD	$335	PCMCIA Ethernet Comb	$105	[illegible]	[illegible]
810MB 2.5" IDE HD	$420	NiMH External Battery	[illegible]	[illegible]	[illegible]

IOT 6000A - 486, 10.4" Screen, 8MB, 1.44FD, TouchPad, SoundBlaster16

/810MB/1.2GB HD	Dual Scan	Active Matrix
DX4-100	$1954/$2062/$2252	$2462/$2549/$2741
x 5X-100	$1944/$2052/$2242	$2452/$2539/$2731
x 5X-120	$1984/$2092/$2282	$2492/$2579/$2771

IOT 8000i - P5, 10.4" Screen, 8MB, 1.44FD, TouchPad, SoundBlaster16

/810MB/1.2GB HD	Dual Scan	Active Matrix
00Mhz	$2284/$2395/$2581	$2662/$2770/$2959
20Mhz	$2346/$2455/$2641	$2722/$2830/$3019
133Mhz	$2424/$2535/$2721	$2802/$2910/$3099

COM PATRIOT 8000i

ACOM PATRIOT 6000A

ACOM Notebook Options

540MB 2.5" IDE HD	$335	NiMH Battery Pack	$105
810MB 2.5" IDE HD	$420	Car Adaptor 12V	$45
1.3GB 2.5" IDE HD	$595	8MB DIMM Module	$355
PCMCIA 14.4 Fax/Data	$99	16MB DIMM Module	$655
PCMCIA 28.8 Fax/Data	$219	Int. CD-ROM 4X Drive	$335
PCMCIA Ethernet Comb	$105		

ACOM PATRIOT 8000i SPECIFICATIONS

CPU
- Intel Pentium 75/90/100/120/133 CPU

BIOS
- 1MB Phoenix systems Flash BIOS

Cache
- 256KB level 2 cache monery onboard

Memory
- 8MB RAM onboard, up to 8/16/24/32MB using industrial standard DIMM memory

Display
- 32Bit PCI VGA sub-system with 1MB VRAM onbrd
- Support LCD/external CRT simultaneous display
- 10.4" VGA DSTN DualScan color LCD
- 10.4" VGA TFT ActiveMatrix color LCD

Data Storage
- Built-in one 2.5" 540MB harddrive and up
- Built-in one removeable 3.5" 1.44MB FDD,
- FD replaceable with 5.25" 2X/4X ATATPI IDE CD-ROM

PCMCIA
- Built-in 2 PCMCIA type-II slots or 1 type-III slot (type IV)

I/O Ports
- 2 x9 pin serial ports (16550 UARTs)
- 1 x25 pin parallel port (EPP/ECP support)
- 1 x15 pin external monitor port
- 1 x 15 pin MIDI/joystick port
- 1 x 6 pin PS/2 keyboard/mouse port
- 1 x RCA composite video port
- 1 x 4 pin mini-DIN S-video port
- 1 x200 pin docking interface

Wireless Link
- Built-in IrDA compatible HP infra-red transmitt module

Audio
- Built-in speakers and microphone
- Built-in 16bit Vibra audio compatible with Sound Blaster 16 and Windows Sound System
- Line-in, Line-out and external microphone jacks

Pointing Device
- Built-in PS/2 capacitive touch-sensitive trackpad

Keyboard
- 86 keyboard with support for all keys of an AT-enhanced keyboard Inverted "T" cursor control keys.

Power System
- Auto-sensing 110V-240V AC adaptor
- Removeable & rechargeable 33.6Wh NiMH battery
- Second battery pack can be installed in place of FDD

Dimemsion
- 9.25"(D) x 11.8"(L) x 2.04"(H)

Weight
- 6.2LBS (with battery)

Optional devices:
- 5.25" 2x/4x ATAPI IDE TEAC CD-ROM drive
- MPEG-1 playback module
- Car adaptor

ACOM PATRIOT 6000A SPECIFICATIONS

CPU
- 486DX4-100Mhz or Cyrix5X-100/120Mhz

BIOS
- 1MB Phoenix systems Flash BIOS

Memory
- 8MB RAM onboard, up to 8/16/24/32MB using industrial standard DIMM memory

Display
- 32Bit VLB VGA sub-system with 1MB VRAM onbrd
- Support LCD/external CRT simultaneous display
- 10.4" VGA DSTN DualScan color LCD
- 10.4" VGA TFT ActiveMatrix color LCD

Data Storage
- Built-in one 2.5" 540MB harddrive and up
- Built-in one removeable 3.5" 1.44MB FDD,
- FD replaceable with 5.25" 2X/4X ATATPI IDE CD-ROM

PCMCIA
- Built-in 2 PCMCIA type-II slots or 1 type-III slot

I/O Ports
- 1 x9 pin serial port (16550 UART)
- 1 x25 pin parallel port (EPP/ECP support)
- 1 x15 pin external monitor port
- 1 x200 pin docking interface

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- Built-in speakers and microphone
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- Line-in, Line-out and external microphone jacks

Pointing Device
- Built-in PS/2 capacitive touch-sensitive trackpad

Keyboard
- 86 keyboard with support for all keys of an AT-enhanced keyboard inverted "T" cursor control keys.

Power System
- Auto-sensing 110V-240V AC adaptor
- Removeable & rechargeable 33.6Wh NiMH battery

Dimemsion
- 8.82"(D) x 11.5"(L) x 1.89"(H)

Weight
- 6.2LBS (with battery)

Optional devices:
- 5.25" 2x/4x ATAPI IDE TEAC CD-ROM drive
- Car adaptor

iMiracle

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Albany CA 94706
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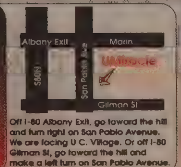
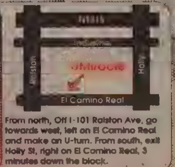


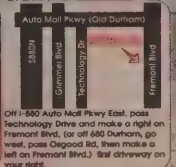
Off I-80 Albany Exit, go toward the hill and turn right on San Pablo Avenue. We are facing U C. Village. Or off I-80 Gilman St, go toward the hill and make a left turn on San Pablo Avenue.

Belmont Store
Ph 415-592-3333
1501 El Camino Rl #E
Belmont CA 94002
Ph 415-592-3333
Fax 415-592-2919
[illegible]



From north, Off I-101 Ralston Ave, go towards west, left on El Camino Real and make an U-turn. From south, exit Holly St, right on El Camino Real, 3 minutes down the block.

Fremont Store
Ph 510-226-6746
44063 Fremont Blvd
[illegible]
Yes! Open on Sunday!



Off I-880 Auto Mall Pkwy East, pass Technology Drive and make a right on Fremont Blvd, (or off 680 Durham, go west, pass Osgood Rd, then make a left on Fremont Blvd.) first driveway on your right.

PC Upgrades & Service Welcome! Our Technical Experts can Troubleshoot your Problem Super Fast!

Hardware Components for your PC Upgrades

Motherboard without CPU: (Call for CPU Prices)

486 ISA VLB 256K - 3 VLB, upto 128MB & 512KB Cache, Support 30 & 72Pin SIMM, Award BIOS, PnP, 3.3V CPU Suppt	$95
486 ISA PCI 256K w/ E-IDE, onbrd HiSpd I/O, upto 256MB & 1MB Cache, suppt 72Pin SIMM, AMI WinBIOS, PnP, 3.3V CPU Suppt	$12[illegible]
TMC Pentium 75-200Mhz PCI [illegible] 256K Cache w/ Triton chpst, Socket 7 & VRM (Voltage Regulator Module Socket), upto 512K Async/Sync Cache, 4 PCI+3 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Master PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, Flash Award ROM w/NCR BIOS, PnP, COAST Socket	$175
ASUS P/I-P55TP4N P5 PCI Pipelined Sync 256K Cache onbrd w/Triton 437FX chpst, 75-166Mhz P5 support, upto 512K Pipelined Sync Cache, 4 PCI+3 ISA+1 ASUS MediaBus slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Master PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP, Flash Award BIOS w/NCR Firmware, Dallas Battery, PnP, COAST Socket	$195
P5 Intel Zappa ZP PCI Async 256K Cache w/Triton chpst 75-133Mhz, 3 PCI + 4 ISA slots, support FP or EDO SIMM upto 128MB, built-in PCI-IDE interfaces, FD, 2 16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP, Flash AMI ROM, APM PowerSaving	$195
P5 Intel Endeavor 2/EV2 PCI Pipelined Sync 256K Cache w/Triton chipset, 75-166Mhz, upto 512K Sync Pipelined Cache, 4 PCI+3 ISA slots, support FP or EDO 72Pin SIMM upto 128MB, Socket 7, built-in PCI-IDE Interfaces, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP, Flash AMI ROM, APM Power Saving, Built-in SoundBlaster Vibra16 16bit stereo sound w/line-in/out, Joystick, WaveTable connector, COAST socket	$24[illegible]
P5 Intel Atlantis PCI Pipelined Sync Burst 256K Cache w/Triton chpst, Integrated 64-bit ATI Mach 64 1MB DRAM (upto 2MB) graphics & Crystal audio subsystems, 75-166Mhz & beyond, upto 512K Sync Cache, 3 PCI+3 ISA slots, support FP or EDO 72Pin SIMM upto 128MB, Socket 7, built-in PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP, Flash AMI ROM, APM Power Saving, Built-in Sound Blaster Class Crystal+Yamaha OPL3LS 16bit stereo sound w/line-in/out, Joystick, WaveTable connector, COAST socket	$340
QUICK Pentium P54TS/TSW2 PCI w/ Built-in Adaptec PCI SCSI chipset 7850/7880 (AHA-2940/2940UW Ultra Wide) support 50Pin Fast SCSI-2 / 68Pin Fast Wide SCSI-2 & Ultra Wide SCSI (40MB/s Burst!!), Pipelined Sync 256K/512K Cache w/Triton chipset, Socket 7 & VRM Socket, 75-200Mhz, P6 Overdrive support, 3 PCI+5 ISA slots, support FP or EDO 72Pin SIMM upto 128MB, built-in PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP, COAST Socket, 50pin SCSI + 68Pin Wide AMP hi-denity + FD/HD/IO cables, Musical alarm CPU fan, PS/2 mouse port & EZ-SCSI V4.0L + complete Adaptec software driver and manual included.	
P54TS w/ 256K Pipelined Sync Cache & Adaptec 2940 onbrd	$325
[illegible]W2 w/ 512K Pipelined Sync Cache & Adaptec 2940UW onbrd	$435
AIR Pentium 586 54CEP 512K 90-133Mhz EISA/PCI - 3 PCI/4 EISA (ISA Compatible) slots, ZIF, Intel Mercury chipset, upto to 512MB by 72Pin SIMM, Bus-master, AMI BIOS, 32-bit PCI bus-master SCSI ports using Adaptec AIC 7880 controller(AHA-2940UW equivalent) supporting 50Pin Fast SCSI-2 & 68Pin Fast WIDE SCSI-2 onbrd floppy ports supporting 2.88MB, 2-16550 UARTs, ECP/EPP Parallel port, PS/2 mouse port, 50pin SCSI cables & complete software driver	[illegible]
AIR Pentium 586 54CDP Dual 512K Neptune Chipset - 90-133MHz Same as above except supporting 2 CPUs	$885
ASUS P6 Pentium Pro P/I-P6RP4 motherboard w/ 256K cache on CPU, CPU cooling Fan, Intel ORION DT chipset, support 150/166/180/200Mhz CPU, 3 ISA+4 PCI slots, w/ onbrd PCI Bus-Master IDE interfaces, HiSpd I/O, FD, PS/2 mouse/Keyboard connector, ZIF Socket 8, VRM module, Flash AMI PnP BIOS, support FP/EDO 72Pin SIMM upto 512MB	
ASUS P/I-P6RP4 above with Pentium Pro 150Mhz CPU	$2030
[illegible] P/I-P6RP4 above with Pentium Pro 180Mhz CPU	$2250
ASUS P/I-P6RP4 above with Pentium Pro 200Mhz CPU	$2575
Intel Pentium Pro P6 Aurora motherboard w/ 256K cache on CPU, CPU cooling Fan, Intel ORION DT chipset, support 150/180/200Mhz CPU, 3 ISA+4 PCI slots, w/ onbrd PCI Bus-Master IDE interfaces, HiSpd I/O, FD, PS/2 type mouse and keyboard connector, ZIF Socket 8, VRM module, Flash AMI PnP BIOS, support FP/EDO 72Pin SIMM upto 128MB, ATX power connector, ATX form factor, require ATX type chassis to fit	
Intel Aurora motherboard above with Pentium Pro 150Mhz CPU	$2130
Intel Aurora motherboard above with Pentium Pro 180Mhz CPU	$2350
Intel Aurora motherboard above with Pentium Pro 200Mhz CPU	$2675

CPU & Memory: (Prices Subject to Change without notice)

P6 Pentium Pro 150/166/180/200Mhz	$Call
Pentium P5-75/90/100/120/133/150/166MHz CPU	$Call
Intel/AMD 486-66DX2/80DX2/100DX4/120DX4/133DX4/OverDrive	[illegible]
Cyrix 5x86-100/120DX P5 OverDrive for 486 motherbrd	$Call
256/512K Synchronous Pipelined Cache COAST module	$45/[illegible]25
1MB/4MB/16MB 30Pin SIMM RAM	$Call
72Pin SIMM - 4/8/16/32/64MB x32/x36 FastPage/EDO	$Call
SIMM Converter - 4 peices 30Pin to 1 piece 72Pin	$Call

I/O Card/Controller Card/Network Card:

VLB Enhanced 4-IDE/FD 2S/1P/1G Controller Supporting 4 Mode3 & 4 E-IDE devices	$18
DTC 2278E VLB Enhanced IDE/FD 2-16550 UARTs + EPP/ECP Controller Supporting Mode3 & 4 E-IDE devices	$27
DTC 2278EB VLB Enhanced IDE/FD 2-16550 UARTs + EPP/ECP w/ BIOS Supporting Mode3 & 4 E-IDE devices even if your old VLB motherboard does not support E-IDE	$4[illegible]
Adaptec 1522 SCSI-2 Controller	$7[illegible]
Adaptec 1542CP PnP Bus-mastering SCSI-2 Controller	$175
Adaptec 2940 PCI Fast PCI SCSI-2 Controller	$165
Adaptec 2940UW PCI Ultra WIDE SCSI-2, 40MB/s burst, 15 SCSI devices support w/ 50 cable Controller	$245
NCR SCSI-2 53C810 Bus-Mastering PCI Controller	$85
External SCSI-2 50Pin Micro-D Adapter for any onboard Internal 50pin ribbon cable SCSI interface	$25
External Wide SCSI 68Pin Micro-D Adapter with 3-68pin-connector internal ribbon cable for any onboard internal 68pin Wide SCSI interface	$55
FAST WIDE SCSI-2 internal Ribbon Cable, 68Pin, 2 / 3 connectors	$25/35
SCSI External Cables Centronic/Micro-D 50/68Pin	$Call
External SCSI Terminator SCSI-2/Micro-D 50/Micro-D 68Pin	$Call
Ethernet NE2000 ISA 16Bit Coaxial/10-Base T/Combo	$25/$25/$28
Intel EtherExpress Pro 100BaseTB PCI	$165
3COM Etherlink III 3C509B Coax/10-BT/Combo	$99/$99/$110
3COM Etherlink III 3C590 Bus-Mastering PCI 10BT/Combo	$105/$125
3COM Etherlink III 3C595-TX Fast Ethernet 10/100BT PCI	$149

Video Card:

Trident 16Bit ISA 512K/1MB	$34/$56
Trident 9440 Windows Accelerator PCI/VLB1MB/2MB	$60/110
Diamond Stealth64 Video DRAM 2000 Series PCI 64Bit Graphic Engine S3-765 2MB EDO DRAM Version	$140
Motion Video Player 1100 Series MPEG Module for Stealth 2000	$145
DTV 1100 TV Tuner for Stealth 2000	$145
Diamond Stealth64 Video VRAM 3000 Series PCI 64Bit Graphic Engine S3-968 2MB/4MB VRAM Version	$245/395
2MB VRAM upgrade board for Stealth 3000	$160
Motion Video Player 2000 Series MPEG Module for Stealth 3000	$285
Diamond Edge 3D PCI 2120XL MultiMedia Game Accelerator - 3D graphics, 16bit WaveTable Sound, SEGA Saturn Control Pad ports, (SGS Thomas STG2000 chipset) 1MB/2MB DRAM Retail Package	$250/$315
Diamond Edge 3D PCI 3240XL MultiMedia Game Accelerator - 3D graphics, 16bit WaveTable Sound, SEGA Saturn Control Pad ports, (nVIDIA - NV1chipset) 2MB/4MB VRAM Retail Package	$395/$535
ATI Xpression PCI 2MB DRAM	$195
ATI Graphic Pro Turbo PCI 2/4MB VRAM	$325/[illegible]
Matrox MGA Millennium 2MB/4MB WRAM PCI	$315/$455
Upgrade module for Millennium 2MB/4MB/6MB	$185/$33[illegible]/$465
Number 9 Imagine 128 4MB/128-1600 4MB PCI	$625/$825
Number 9 Imagine 128 Professional 8MB PCI	$1205

Monitor:

14" ShamRock 1Kx768NIx0.28DP Digital Control Green Monitor	$230
15" ShamRock 1280x1KNIx0.28DP Digital Control Low-Rad Monitor	$335
17" ShamRock 1280x1KNIx0.28DP Digital Control Low-Rad Monitor	$595
Hitachi NSA SuperScan CM1587M 15" NI, 1280x1024, 0.28DP, FlatScreen, EPA Green, Digital Controlled	$380
MAG Technitron Series Trinitron Tube, Digital Control, 0.25DP, 1280x1KNI, 3yr [illegible] Warranty [illegible]	$475/$795
MAG DX95 Series DX1495/DX1595/DX1795	$275/$385/$685
Princeton (MAG made) Ultra 17 Plus - 17" Full Digital Control, 0.28DP, upto 75Hz @ 1280x1KNI, Green, VESA DPMS, Auto-switch, 3 yr warranty	$645
IIYAMA VisionMaster MF-8617E 17" FST .26DP, PnP, Microprocessor Contrl, 1280x1024@80Hz, VESA DPMS	$720
IIYAMA VisionMaster MT-9017E 17" Tension Mask, .25DP, PnP, 1280x1024@85Hz, VESA DPMS	$820
IIYAMA VisionMaster MT-9021E 21", Tension Mask, PnP, 1600x1200@75Hz, Onscreen Programming.	$1710
Nanao F2-15 15" .28DP 1Kx768@87Hz	$565
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Hitachi, NEC, ADI, Nokia Monitors	$Call

[illegible]

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Focus 8000 111 w/ Calculator	$3
Focus 9000 129 Programmable w/Calculator	$4
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NorthGate OmniKey 101NI/102	$7
MS 3-Button Mouse	$
MicroSoft Ergonomic Serial/PS 2 type	[illegible]
Logitech Mouseman Serial/PS 2 type/Cordless	$45/[illegible]
MS DOS 6.22/Windows V3.11/WFWG V3.11(w/System Purchase)	[illegible]
MS Windows 95 Upgrade FloppyDisk/CDROM Retail version	[illegible]
MS Windows 95 Full CD-ROM OEM version	[illegible]
MS Windows NT V3.51 Workstation/Server	$2[illegible]
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Premium Case w/250W Full Size Tower	[illegible]
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ATX Form Factor Style Case with ATX type P/S - new Intel standard	[illegible]
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486/P5/P6 CPU Cooling Fan w/heat sink	$8/$12/[illegible]
Chassis Second Cooling Fan 3" or 3.5"	$1
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PS/2 mouse port connector for motherboard PS/2 mouse port	$1

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Sony CDU-77E Quad Speed 190ms ATAPI IDE	$9
Sony CDU-76S Quad Speed 190ms SCSI	[illegible]
Mitsumi FX-400B Quad Speed 230MS ATAPI IDE	$9
Toshiba XM-5402B QuadSpeed IDE 256K Cache, <150ms, 600KB/Sec, MultiSpin/Spd Internal	$9
Toshiba XM-3701B SixSpeed SCSI-2, 900KB/Sec. Internal	[illegible]
Toshiba [illegible] SixSpeed IDE, 900KB/Sec. Internal	[illegible]
Teac 56E 6X ATATPI IDE internal	[illegible]
Plextor 4-Plex Plus QuadSpd PX-43CE, SCSI-2, 675Kb/sec, Internal 100ms seek, 256K Buffer, Caddy, PnP/SCAM, 2-yr warranty	$25
Plextor 6-Plex 6XSpeed PX-63CS 900Kb/sec, internal 115ms seek, 256K Buffer, 2-yr warranty	[illegible]
Diamond 800 CD-ROM Kit 8XI, 1200KB/s, IDE Internal	[illegible]
Turtle Beach 8XI 140ms, 1200KB/s, 256K, IDE internal	[illegible]

Sound Card/Speaker/MultiMedia Package:

50W/60W/120W/160W Hi-Fi Amplified Stereo Speakers	[illegible]
Sound Blaster Vibra 16 Stereo w/IDE Interface OEM	$75
Sound Blaster 16 SCSI-2 OEM - ASP upgrdable	[illegible]
Sound Blaster 32 w/ IDE Interface OEM - ASP upgrdable	[illegible]
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Sound Blaster AWE32 w/ IDE Interface OEM - ASP upgrdable	[illegible]
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Diamond Quad-Spd WaveTable Multimedia kit 7000	[illegible]
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MS CD titles including Encarta 95, Works, Money, Explorapedia:World of Nature, Dangerous Creatures, World of Flight, Scenes: Undersea Collection, 55+ Title CD Samplers	[illegible]
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HardDisk:

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Conner 2.1GB Antigua CFP2107W 7200RPM	$755
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Seagate 4.3GB Hawk ST15230W 5400RPM	$1025
Seagate 2.1GB Barracuda ST32550W 7200RPM	$865
Seagate 4.3GB Barracuda ST15150W 7200RPM	$[illegible]385
Seagate 9.0GB Elite ST410800W Fast Wide SCSI-2	$[illegible]45
Fujitsu 1.08GB 512K 10ms M2694EQA 5400RPM	$295
Fujitsu 2.1GB 512K 10ms M2915QAW 7200RPM	$555
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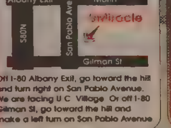

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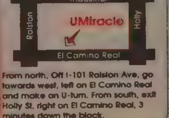

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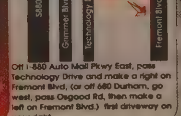

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Fantasies

continued from page 22

and published an article saying that 1% "would vastly exceed the current needs of law enforcement officials around the country, who in recent years have conducted an annual average of less than 850 court-authorized wiretaps—or fewer than one in every 174,000 phone lines."

FBI Director Louis Freeh promptly sent a letter to the editor saying that "1%" meant "only" one wiretap per 1,000—a novel interpretation of "1%."

"Other Authorizations?"

If there are less than 850 *court-authorized* wiretaps yearly, why does the government need the capacity to *simultaneously* wiretap at *least* one call per 400 nationally? Perhaps most of this snooping will be under that ubiquitous little phrase, "or other lawful authorization".

What other authorizations are there? We don't know. They're secret, as are the massive secret "war" powers that Congress has given to the presidency over the last half century, but has never rescinded. And if a superior officer orders a wiretap, government agents could certainly claim they were operating under "lawful authorization"—exactly as the ATF and the FBI did during last fall's hearings about their Ruby Ridge raid and Waco cookout.

Who Gets to Snoop?

CALEA states that "government... means the government of the United States and any agency or instrumentality thereof, ... and any State or political subdivision thereof authorized by law to conduct electronic surveillance."

For better or worse, this wiretap system ain't just for elite federal troops. It's for local cops, politicized sheriffs, zealous prosecutors and *all* local and state agencies with *any* electronic surveillance authority—as well as the IRS, INS, ATF, FBI, CIA, DIA, the hacker-raiding SS and the profit-funded, seizure-eager DEA.

Hell, even most park rangers who are sworn peace officers could use it legally!

And what about *illicit* users such as powerful politicians and bureaucrats at all levels, lowly staffers making unauthorized use of their authorized access (such as the 1,300 employees that the IRS reported disciplining), phone phreaks and computer crackers who figure out how to penetrate the notoriously insecure national phone system, industrial espionage agents like the French and Israeli security forces who have spied on US firms and passed information along to our foreign competitors, and so on?

$10,000 Per Day Penalties

This system is not "optional." Telecommunications carriers are *required* to install the wiretap circuits by October of 1998 under threat of "a civil penalty of up to $10,000 per day for each day" that they fail to do so (with one notable exception below).

Stop The Appropriations!

What can you do—besides cower and snarl?

Five hundred million is *authorized* to pay for this disaster. But it turns out that the administration can't spend it unless it's *appropriated*, and the phone companies don't have to install the circuits unless they're paid.

Delightfully, that nasty ol' conservative Republican Congress has held up the appropriation that the Clinton administration has repeat-

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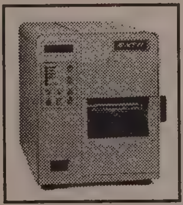

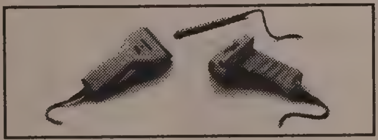

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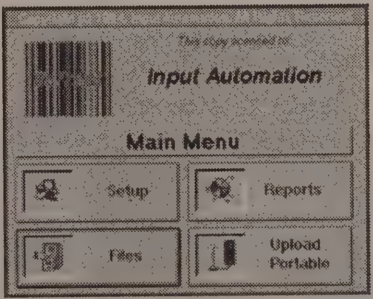

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edly requested this year. For some reason, they seem to have doubts about the system—at least until a Republican is in the White House.

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Update On Presidential Debates

As I reported in the January and February issues of *MicroTimes,* I attempted to organize the first-ever online debate among nationally-known presidential candidates, using the Republican herd as the best targets of opportunity. Results:

I arranged for several major news media to co-host the debate on their Web pages, including *U. S. News & World Report* and the *San Jose Mercury News*' Mercury Center. Numerous reporters, columnists, and editors for the nation's leading print media stated that they would cover any substantive online debates. It would have given them front-page coverage, if Jerry Brown's short photo-op pecking at a CompuServe keyboard in 1992 is any guide.

But only Senators Dick Lugar, Morry Taylor, and Charles Collins agreed to participate. Representative Bob Dornan (R-CA) agreed and even faxed a signed commitment, but he reneged three days later. (So much for honoring signed commitments.)

The rest of the horse-and-buggy candidates pleaded various degrees of "too busy," carefully ignoring the fact that one can participate in online debates from anywhere, at any time, taking only a few minutes per day, presumably consulting advisors and using staff typists (as one would *hope* any president would do).

The Dole campaign doesn't even tolerate email from voters; his is an out-only operation.

Sadly, it appears that many of our candidates are stuck in the quaint, televised 20th century, pretending that they want to "lead" us into the 21st century—while carefully avoiding substantive dialogue using the tools of the Information Age. They talk the talk, but they don't walk the walk.

Horse's Mouth

On March 27th, Jim Warren will speak to the California Association of Licensed Investigators in San Jose. For details, contact CALI's *JimPell@aol.com.*

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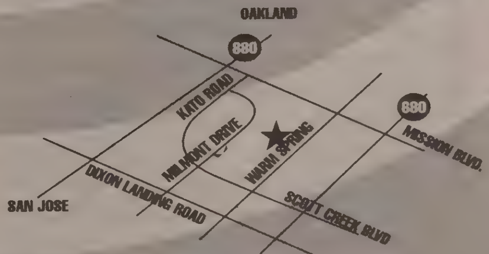

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GUEST EDITORIAL • BY ANDREW GROSSO

The "Dank" Case Revisited

The Law Enforcement Argument For Mandatory Key Escrow Encryption

The following is a revised version of a talk given by the author at the 1996 RSA Data Security Conference, held in San Francisco, California. Mr. Grosso is a former federal prosecutor who now has his own law practice in Washington, D.C. His email address is agrosso@acm.org .

I would like to start by telling a war story. Some years ago, while I was an assistant US attorney, I was asked to try a case that had been indicted by one of my colleagues. For reasons that will become clear, I refer to this case as "the Dank case."

The defendant was charged with carrying a shotgun. This might not seem so serious, but the defendant had a prior record. In fact, he had six prior convictions, three of which were considered violent felonies. Because of that, this defendant was facing a mandatory fifteen years imprisonment, without parole. Clearly, he needed an explanation for why he was found in a park at night carrying a shotgun. He came up with one.

The defendant claimed that another person, called "Dank," forced him to carry the gun. "Dank," it seems, came up to him in the park, put the shotgun in his hands, and then pulled out a handgun and put the handgun to the defendant's head. "Dank" then forced the defendant to walk from one end of the park to the other, carrying this shotgun. When the police showed up, "Dank" ran away, leaving the defendant holding the bag, or, in this case, the shotgun.

The jurors chose not to believe the defendant's story, although they spent more time considering it than I would like to admit. After the trial, the defendant's story became known in my office as "the Dank defense." As for myself, I referred to it as "the devil made me do it."

I tell you this story because it reminds me of the federal government's efforts to justify domestic control of encryption. Instead of "Dank," it has become, "drug dealers made me do it"; or "terrorists made me do it"; or "crypto anarchists made me do it." There is as much of a rationale basis behind these claims as there was behind my defendant's story of "Dank." Let us examine some of the arguments the government has advanced.

The Government's Case

It is said that wiretapping is indispensable to law enforcement. This is not the case. Many complex and difficult criminal investigations have been successfully concluded, and successfully argued to a jury, where no audio tapes existed of the defendants incriminating themselves. Of those significant cases, cited by the government, where audio tapes have proved invaluable, such as in the John Gotti trial, the tapes have been made through means of electronic surveillance other than wiretapping, for example, through the use of consensual monitoring or room bugs. The unfettered use of domestic encryption could have no effect on such surveillance.

It is also said that wiretapping is necessary to prevent crimes. This, also, is not the case. In order to obtain a court order for a wiretap, the government must first possess probable cause that a crime is being planned or is in progress. If the government has such probable cause concerning a crime yet in the planning stages, and has sufficient detail about the plan to tap an individual's telephone, then the government almost always has enough probable cause to prevent the crime from being committed. The advantage that the government gains by use of a wiretap is the chance to obtain additional evidence that can later be used to convict the conspirators or perpetrators. Although such convictions are desirable, they must not be confused with the ability to prevent the crime.

The value of mandating key escrow encryption is further eroded by the availability of super encryption, that is, using an additional encryption where the key is not available to the government. True, the government's mandate would make such additional encryption illegal; however the deterrence effect of such legislation is dubious at best. An individual planning a terrorist act, or engaging in significant drug importation, will be little deterred by prohibitions on the means for encoding his telephone conversations. The result is that significant crimes will not be affected or discouraged.

In a similar vein, the most recent estimates of the national cost for implementing the Digital Telephony law, which requires that commercial telecommunications companies wiretap our nation's communications network for the government's benefit, is approximately $3 billion. Three billion dollars will buy an enormous number of police man-hours, officer training, and crime fighting equipment. It is difficult to see that this amount of money, by being spent on wiretapping the nation, is being spent most advantageously with regard to law enforcement's needs.

Finally, the extent of the federal government's ability to legislate in this area is limited. Legislation for the domestic control of encryption must be based upon the commerce clause of the US Constitution. That clause would not prohibit an individual in, say, the state of California from purchasing an encryption package manufactured in California, and using that package to encode data on the hard drive of his computer, also located in California. It is highly questionable whether the commerce clause would prohibit the in-state use of an encryption package which had been obtained from out of state, where all the encryption is done in-state and the encrypted data is maintained in-state. Such being the case, the value of domestic control of encryption to law enforcement is doubtful.

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The "Dank" Case Revisited *continued...*

Disadvantages Of Domestic Control Of Encryption

Now let us turn to the disadvantages of domestic control of encryption. Intentionally or not, such control would shift the balance that exists between the individual and the state. The individual would no longer be free to conduct his or her personal life, or business, free from the risk that the government may be watching every move. More to the point, the individual would be told that he or she would no longer be allowed to even try to conduct his or her life in such a manner. Under our Constitution, it has never been the case that the state has the right to evidence in a criminal investigation. Rather, under our Constitution, the state has the right to pursue such evidence. The distinction is crucial: it is the difference between the operation of a free society, and the operation of a totalitarian state.

Our Constitution is based upon the concept of ordered liberty. That is, there is a balance between law and order, on the one hand, and the liberty of the individual on the other. This is clearly seen in our country's Bill of Rights, and the constitutional protections afforded our accused: evidence improperly obtained is suppressed; there is a ban on the use of involuntary custodial interrogation, including torture, and any questioning of the accused without a lawyer; we require unanimous verdicts for convictions; and double jeopardy and bills of attainder are prohibited. In other words, our system of government expressly tolerates a certain level of crime and disorder in order to preserve liberty and individuality. It is difficult to conceive that the same Constitution that is prepared to let a guilty man go free, rather than admit an illegally seized murder weapon into evidence at trial, can be interpreted to permit wholesale, nationwide, mandatory surveillance of our nation's telecommunications system for law enforcement purposes. It is impossible that the philosophy upon which our system of government was founded could ever be construed to accept such a regime.

Liberties In Balance

I began this talk with a war story, and I would like to end it with another war story. While a law student, I had the opportunity to study in London for a year. While there, I spent one week touring the old Soviet Union. The official Soviet tour guide I was assigned was an intelligent woman. As a former Olympic athlete, she had been permitted in the 1960s to travel to England to compete in international tennis matches. At one point in my tour, she asked me why I was studying in London. I told her that I wanted to learn what it was like to live outside of my own country, so I chose to study in a country where I would have little trouble with the language. I noticed a strange expression on her face as I said this. It was not until my tour was over and I looked back on that conversation that I realized why my answer had resulted in her having that strange look. What I had said to her was that *I* had chosen to go overseas to study; further, I had said that *I* had chosen *where* to go. That I could make such decisions was a right that she and her fellow citizens did not have. Yes, she had visited England, but it was because her government chose her to go, and it was her government that decided where she would go. In her country, at that time, her people had order, but they had no liberty.

In our country, the domestic control of encryption represents a shift in the balance of our liberties. It is a shift not envisioned by our Constitution. If ever to be taken, it must be based upon a better defense than what "Dank," or law enforcement, can provide. ■

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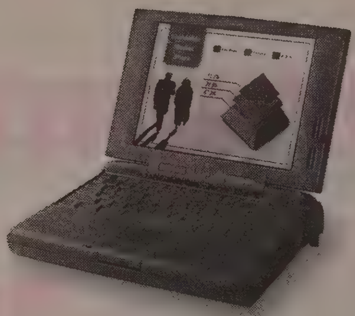

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- 16MB exp to 256MB
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- Quad Speed CD-ROM Drive
- Built-in 1MB VRAM Graphics
- 24-bit Video Capture
  PN M3102LL/A........................**$2749**
  *Monitor & Keyboard not included

POWERMAC 8500

- Power PC 604 RISC @ 120Mhz
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- 1GB Hard Drive
- 1.44MB FDD (Reads Mac/DOS and OS/2)
- Quad Speed CD-ROM Drive
- Built-in 2MB VRAM Graphics
- 24-bit Video Capture & Playback
  PN M3104LL/A........................**$3995**
  *Monitor & Keyboard not included)

POWERMAC 8500

- Power PC 604 RISC @ 120Mhz
- 16MB RAM exp to 512MB
- 2GB Hard Drive
- 1.44MB FDD (Reads Mac/DOS and OS/2)
- Quad Speed CD-ROM Drive
- Built-in 2MB VRAM Graphics
- 24-bit Video Capture & Playback
  PN M3105LL/A........................**$4395**
  *Monitor & Keyboard not included

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- Power PC 603e 100Mhz
- 8MB RAM exp to 64MB
- 500MB Hard Drive
- 10.4"Active Matrix Color
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- Built-in 16-bit Sound
  PN M3133LL/A........................**$3369**

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- 16-bit Sound & Speakers
- Windows '95
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- Desktop Case
- Windows '95
- 3 Year Warranty
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- Windows '95
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- Mini-Tower Case
- Windows '95
- 3 Year Warranty
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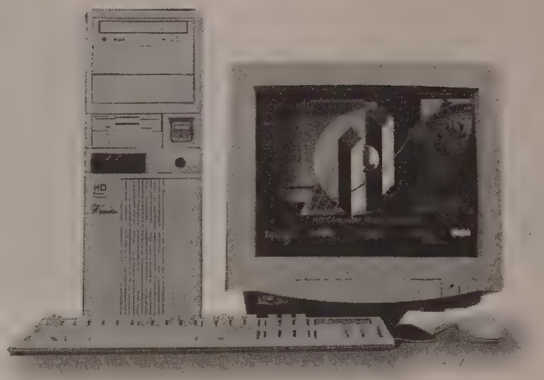

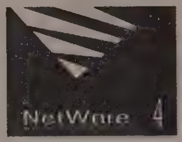

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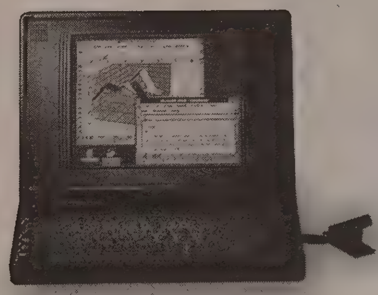

HP VECTRA VL3

- Intel Pentium® 75MHz CPU
- 8MB RAM Exp To 192MB
- 840MB HDD/1.44MB FDD
- Desktop Case
- 1MB SVGA Card (Monitor not included)
- HP Keyboard & Mouse
- MS Dos/Windows for Workgroups
- 3 Year Limited Warranty
  PND3395B.................**$1559**

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- Intel Pentium® 90MHz CPU
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- 1GB HDD/1.44MB FDD
- Desktop Case
- 1MB SVGA Card (Monitor not included)
- HP Keyboard & Mouse
- MS Dos/Windows for Workgroups
- 3 Year Limited Warranty
  PND3662A.................**$2049**

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- Intel Pentium® 75/90/120/133MHz CPU
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- 840MB HDD/1.44 FDD
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- 32 Bit Ethernet Card
- HP Keyboard & Mouse
- MS Windows '95
- 3 Year Limited Warranty
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HP OMNIBOOK 5000C

- Intel Pentium® 75MHz CPU
- 8MB Ram Exp To 40MB
- 540MB HDD/16 Bit Sound
- 10.4" Active Matrix Color
- Trackball/Stereo Speakers
- 7.3 Lbs/3 Year Warranty
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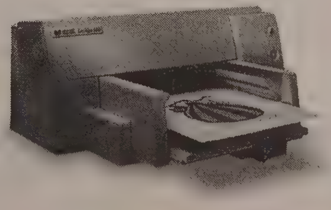

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- *8MB Ram Exp To 40MB*
- *520MB IDE Hard Disk Drive*
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- *10.4 Passive Color Display*

ZII-6663QF............**$3750**

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- *8MB Ram Exp To 40MB*
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- *8MB Ram Exp To 40MB*
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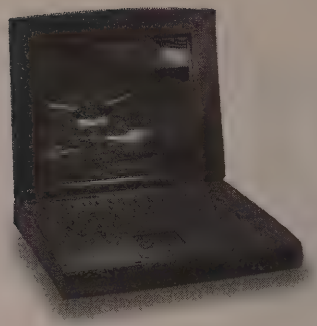

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- *10.4" High-Res TFT VGA*
- *2 Type II or 1 Type III PCMCIA*
- *16 Bit Sound & Speakers*
- *MS Windows '95*
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- *16 Bit Sound & Speakers*
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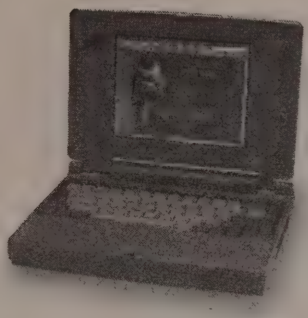

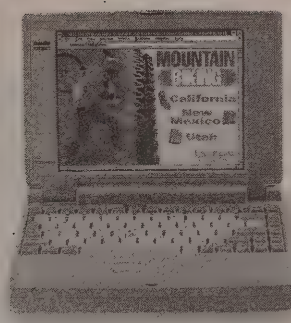

TOSHIBA T2150CS

- Intel 486x4-75MHz CPU
- 4MB Ram Exp To 28MB
- 520MB HD
- 10.4" DSTN /1MB SVGA
- Acupoint Mouse

PN PA1184U-S2W............**$2095**

TOSHIBA T2110CS

- Intel 486DX4-75MHZ CPU
- 4MB RAM Exp To 28MB
- 330MB HDD
- 10.4" DSTN Color/ 1MB SVGA
- Accupoint Mouse

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- Intel Pentium® 120MHZ CPU
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- 500MB HDD/Ext 1.44MB FDD
- 10.4" DSTN SVGA
- 16 Bit Sound & Speaker

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TOSHIBA SATELLITE 410CS

- Intel Pentium® 90MHz CPU
- 8MB EDO RAM Exp To 40MB
- 810MB HDD/1.44MB FDD
- 11.3" DSTN VGA
- 16 Bit Sound & Speaker
- Windows '95
- 7.2 Lbs/3 Year Warranty

PN PA1215U-S6A............**$3499**

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- 8MB EDO RAM Exp To 40MB
- 810MB HDD/Ext 1.44MB FDD
- Internal 4x CD Rom Drive
- 11.3" TFT VGA
- 16 Bit Sound & Speaker
- Windows '95
- 7.4 Lbs/3 Year Warranty

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- Intel Pentium® 90MHz CPU
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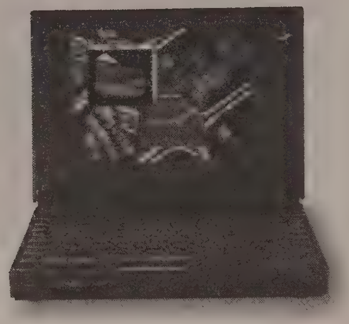

IBM THINKPAD 755CD

- *Pentium 75MHz CPU*
- *8MB Ram Exp To 24MB*
- *1.2GB HDD/1.44MB FDD*
- *10.4"TFT VGA*
- *Internal CD Rom Drive*
- *Dos/Windows & OS/2*
- *3 Year Int'l Easy Serve Warranty*
  PN 9545FBL........................**$5395**

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- *1.2GB HDD/1.44MB FDD*
- *12.1"TFT VGA*
- *Internal CD Rom Drive*
- *Windows '95*
- *3 Year Int'l Easy Serve Warranty*
  PN 9546U11........................**$6759**

AST ASCENTIA 950N

- *Intel Pentium 75MHz CPU*
- *8MB Ram Exp To 40MB*
- *500MB HDD (DSTN)/800MB HDD (TFT)*
- *SoundBlaster 16 & Speaker*
- *10.4" DSTN/TFT VGA*
- *MS Windows '95*
- *3 Year Warranty*
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AST ASCENTIA 950NLM120

- *Intel Pentium 120MHz CPU*
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- *800MB HDD (DSTN / 1.2GB HDD (TFT)*
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- *11.8" DSTN/TFT VGA*
- *MS Windows '95*
- *3 Year Warranty*
  DSTN *PN 501898–301*............**$4629**
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HD COMPUTER

EPSON - ActionNote 880C

- 486DX2-80MHz CPU
- 8MB Exp To 24MB
- 340MB HDD/1.44MB FDD
- 10.3" DSTN Color/1MB SGVA
- 14.4 Fax Modem
- 16 Bit Sound
- MS Dos/Windows
- 6.0 Lbs

A544201........................**$2295**

EPSON - ActionNote 880CX

- 486DX2-80MHz CPU
- 8MB Exp To 24MB
- 700MB HDD/1.44MB FDD
- 10.4" TFT Color/1MB SGVA
- 14.4 Fax Modem
- 16 Bit Sound
- MS Dos/Windows
- 6.0 Lbs

A536211........................**$3295**

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- Intel Pentium® 75MHz CPU
- 8MB Ram Exp To 40MB
- 540MB HDD/1.44MB FDD
- 10.4" DSTN/TFT Color
- 1MB PCI SVGA
- Ergonomic Touchpad
- MS Windows '95
- 6.4 Lbs
- 3 Year Limited Warranty

954 **Dual Scan** **$2409**
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- Intel Pentium® 133MHz CPU
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- Mini Tower Case
- 101 Key Keyboard & Mouse
- MS Dos/Windows/Office
- 3 Year Limited Warranty

PN 9348 ....**$2649**

***Microsoft Office 95**...........**$340**

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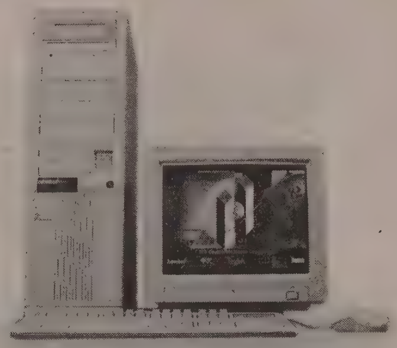

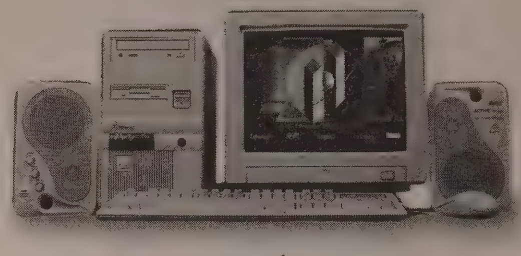

Victoria™ WHITE
PENTIUM PRO® SERVER

- Asus Pentium Pro® w/256K Cache Motherboard
- Intel Pentium Pro® CPU
- 16MB Ram Exp. to 512MB
- 3 1/2" 1.44MB Floppy Disk Drive
- 101 Key Enhanced Keyboard
- Seagate 2.0GB SCSI Hard Disk
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports & 1-Parallel Port
- Diamond Stealth 64 PCI w/1MB
- Full Tower Case w/230 W Power Supply
- 15" 1280 x 1024 Non-Int, Flat Screen, .28 Dpi
- HP 1534ADAT 2.0 GB SCSI Tape Back-Up
- TOSHIBA 3701 SCSI 6X CD-ROM
- 3COM 3C590 PCI Combo Ethernet Card
- Microsoft Bus Mouse & Mouse Pad

150MHZ	**$5195**
180MHZ	**$5395**
200MHZ	**$5795**

Victoria™ MAGENTA
CAD STATION

- Asus Triton Pentium Motherboard
- 256K Pipeline Cache Exp To 512K
- 32MB EDO RAM Exp To 128MB
- Mid Tower Case w/230W Power Supply
- 101K Enhanced Keytronic Keyboard
- Teac 1.44MB 3½" Floppy Disk
- Seagate 2.0GB Enhanced IDE Hard Disk
- PCI Enhanced IDE Controller
- 2-16550 Serial & One Par Port
- Matrox MGA Millenium PCI w/2MB WRAM
- ViewSonic 17PS 1600x1280 .25 Monitor
- Summasketch III 12x12 4 Button Digitizer
- Teac Internal 6x EIDE CD-ROM
- MS DOS 6.2 & Windows for Workgroups

133MHZ	**$3595**
150MHZ	**$3695**
166MHZ	**$3795**

Victoria™ YELLOW
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- Zappa Pentium® w/256K Cache Motherboard
- Intel Pentium® Processor
- 8MB Ram Exp. to 256MB
- 3 1/2" 1.44MB Floppy Disk Drive
- 101 Key Enhanced Keyboard
- 1.2GB Enhanced IDE Hard Disk
- PCI Enhanced IDE Controller
- 2-16550 Serial Ports & 1-Parallel Port
- Diamond Stealth 64 PCI w/2MB DRAM
- Mid Tower Case w/230 W Power Supply
- 15" 1280 x 1024 Non-Int, Flat Screen, .28 Dpi
- TOSHIBA 4X Enhanced IDE CD-ROM
- Sound Blaster 16 + 50 Watt Stereo Speaker
- Microsoft Serial Mouse & Mouse Pad
- Microsoft Windows 95
- NetScape Navigator 1.2
- 28.8 Internal Fax/Modem

100MHZ	**$1895**
120MHZ	**$1945**
133MHZ	**$2025**
150MHZ	**$2125**
166MHZ	**$2225**

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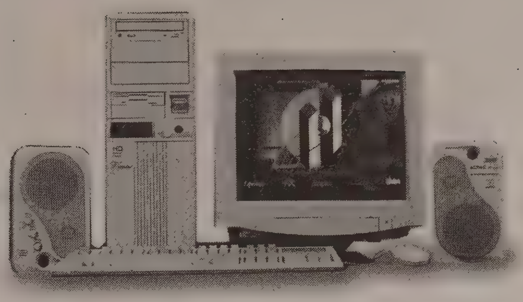

HD COMPUTER

Victoria™ GRAY

- Intel Zappa Triton Motherboard w/256k Cache
- Intel Pentium® Processor and CPU FAN
- 16MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1.6GB EIDE Hard Drive
- 17" Non-Interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/2MB VRAM
- 28.8 INT Fax/Modem
- ON Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft Windows 95
- QUAD Speed IDE CD ROM
- 16 Bit Sound Card & Stereo Speaker
- Encarta 95
- MS Works
- MS Money
- MS Entertainment Pack

100MHZ	**$2445**
120MHZ	**$2495**
133MHZ	**$2575**
150MHZ	**$2675**
166MHZ	**$2775**

Victoria™ RED

- Intel Zappa Triton Motherboard w/256k Cache
- Intel Pentium® Processor and CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1 GB SCSI Hard Drive
- 15" Non-Interlaced Monitor
- Diamond Stealth 64 PCI Video Card w/2MB DRAM
- 28.8 INT Fax/Modem
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft Windows 95
- Six Speed EIDE CD ROM

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- Adaptec 2940 PCI SCSI Controller
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FROM:____________________
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SYSTEM	☐ AMD 486 ☐ INTEL 486 ☐ INTEL PENTIUM ☐ P-6 ☐ NexGen 586
CLOCK SPEED	☐ 66 MHz ☐ 75 MHz ☐ 80 MHz ☐ 90 MHz ☐ 100 MHz ☐ 120 MHz ☐ 133 MHz ☐ 150 MHz ☐ 166 MHz ☐ 180 MHz
BUS FOR PENTIUM®	☐ PCI/ISAz ☐ PCI/ISA (Dual CPU) ☐ PCI/EISA (Dual CPU)
BUS FOR 486	☐ PCI/ISAz ☐ PCI/VL/ISA ☐ VL/ISA ☐ EISA/VL
CACHE	☐ 128 K ☐ 256 K ☐ 512 K ☐ 1 MB ☐ PIPELINE
MEMORY	☐ 4 MB ☐ 8 MB ☐ 12 MB ☐ 16 MB ☐ 24 MB ☐ 32 MB ☐ 64 MB ☐ 128 MB ☐ 256 MB ☐ EDO
CASE	☐ DESKTOP ☐ TOWER+230W ☐ MINI+230W ☐ MID+230W ☐ FULL+230W
KEYBOARD	☐ 101 KEY ☐ MS NATURAL ☐ 104 KEY
FLOPPY A	☐ 1.2 MB ☐ 1.44 MB ☐ DUAL/2.88 MB
FLOPPY B	☐ 1.2 MB ☐ 1.44 MB ☐ DUAL/2.88 MB
HARD DRIVE	☐ 540 MB ☐ 850 MB ☐ 1.0 GB ☐ 1.2 GB ☐ 1.6 GB ☐ 2.0 GB ☐ 4.3 GB ☐ 9.0 GB
CONTROLLER	☐ IDE ☐ E-IDE ☐ SCSI ☐ PCI ☐ EISA ☐ VLB
I/O PORT	☐ 2S1P ☐ 2S1P1G ☐ 2S/16550/1P
VIDEO CARD	☐ MGP ☐ SVGA ☐ VLB ☐ PCI ☐ 1 MB ☐ 2 MB ☐ 4 MB ☐ 8 MB
MONITOR	☐ 14" ☐ 15" ☐ 17" ☐ 20" ☐ 21"
FAX MODEM	☐ EXTERNAL ☐ INTERNAL ☐ 1.44 K ☐ 28.8K
TAPE BACKUP	☐ EXTERNAL ☐ INTERNAL ☐ AT BUS ☐ DAT 2 GB ☐ DAT 4 GB ☐ SCSI ☐ 350 MB ☐ 700 MB ☐ 800 MB ☐ 1.4 GB
CD ROM	☐ EXTERNAL ☐ INTERNAL ☐ 4X ☐ 6X ☐ 8X
SOUND CARD	
MOUSE	☐ MICROSOFT ☐ LOGITECH ☐ GENERIC ☐ SERIAL ☐ BUS ☐ TRACKBALL
SOFTWARE	☐ WINDOWS 3.11 FOR WORKGROUP ☐ OS/2 ☐ WINDOWS 95 ☐ WINDOWS NT ☐ DOS 6.22 & WINDOWS 3.11
NETWORK CARD	☐ ISA ☐ EISA ☐ VLB ☐ PCI
OPTIONS	______________________________

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○ PC NOTEBOOK ○ Network FILESERVER
○ MACINTOSH NOTEBOOK

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○ Name Brand
○ Compatibles
○ No Preference

Step 1: Enter PC System Brand Name & Model #. If Preference
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Quantity / Choices ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ **My Budget For System Is** ○ Under $1000 ○ $1000 to $1999 ○ $2000 to $2999 ○ $3000 to $3999 ○ $4000 to $4999 ○ Over $5000
10 or More ○ Call Me For A More Detailed Quote. ○ Quote Me For Selected Upgrade/Peripherals Choices Only. ○

STEP TWO: SYSTEM CONFIGURATION:
○ INTEL ○ AMD ○ CYRIX ○ NEXGEN ○ MAC QUADRA/PERFORMA ○ MACPOWER PC
○ PENTIUM ○ 486
CPU MHz & SPEED:
○ DX4 ○ DX2 ○ DX ○ SX ○ Quadra ○ PowerPC
○ 166 ○ 150 ○ 133 ○ 120 ○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60
BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA
CACHE ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB
HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+
○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+
MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync
FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB
FAX MODEM: ○ Internal ○ External ○ 9600bps ○ 14400bps ○ 28800bps
CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower
VIDEO CARD RAM ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB
POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard
○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen
OPERATING SYSTEM NEEDED: ○ Windows 95 ○ OS2/Warp
○ Win NT ○ Mac ○ UNIX ○ DOS/Windows 3.11

STEP THREE: MULTIMEDIA UPGRADE ○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately
CD ROM DRIVE: ○ Internal ○ IDE ○ SCSI ○ External
CD ROM TITLES INCLUDED: ○ 1-5 ○ 5-10 ○ 11+
SPEED ○ 2X ○ 4X ○ 6X ○ 8x
○ BRAND NAME ○ No Brand Name Preference
CD ROM Brand Name and Model Number
SOUND CARD ○ 16Bit ○ 32Bit
SPEAKERS ○ Less Than 25W ○ 25 to 50W ○ 50 to 75W ○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4
SCREEN TYPE: ○ Mono ○ Dual Scan Color ○ Active Color
PCMCIA SLOT: ○ Type I ○ Type II ○ Type III ○ Type IV
○ Audio Capable ○ Docking Station ○ Extra Battery
○ Fax Modem ○ CD\MultiMedia

STEP FIVE: NETWORKING NEEDS: ○ Please Contact Me on My Networking Needs Indicated Below
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○ Software ○ Hardware ○ Consultation ○ Design ○ Installation ○ Administration ○ MS Workgroups
○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

STEP SIX: UPGRADES & PERIPHERALS: ○ Ink Jet Printer ○ Tape Backup ○ Accelerator ○ Digitizer
○ Laser Printer ○ Color Printer ○ Dot Matrix Printer ○ Flat Bed Scanner ○ Hand Scanner ○ Zip Drive

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Windows 95 On-The-Go

Portability Problems And Ease-Of-Use Solutions

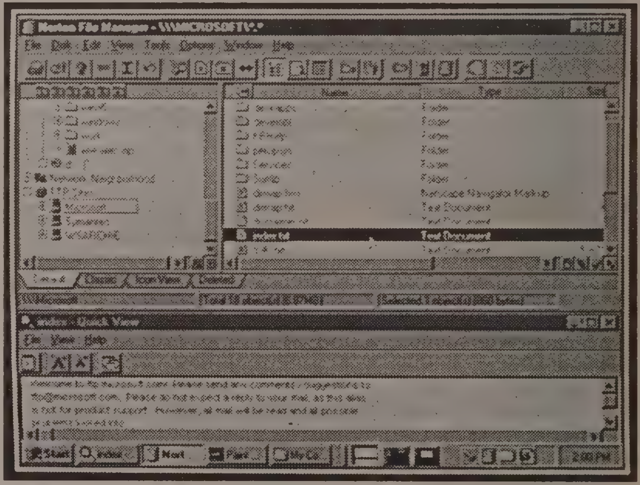
Most new portables come preloaded with Windows 95. This month, I will discuss the joys and pitfalls of Windows 95 for on-the-go computing.

There are many advantages to Windows 95. The interface, for instance, is more intuitive than earlier versions. In addition, it is easier to move around within Windows 95 than it was in the earlier incarnations. On the other hand, it is more difficult to configure. If you are like me, Windows 95 out of the box does not have the look and feel you want. I use my computer as a standalone machine, not as part of a network. I prefer an uncluttered workspace, so I needed to eliminate some of the icons that initially showed up on the screen.

I also wanted the standard applications I use every day to appear on the desktop. And finally, I wanted hot keys to invoke these applications. When I first set up the system, I put all of the frequently used applications into my startup file so they would load automatically every time I turned on the system. Soon, however, I discovered that it took an inordinately long time for the system to boot up. It made more sense to put icons for these applications onto the opening screen and open them as needed.

Learning to use Windows 95 is a two-part process. Figuring out how to call up the applications and navigate from program to program is easy and intuitive. The built-in tutorial shows you how to do it, and the interface is easy to grasp. But making Windows 95 look and work the way you want is quite a different matter. The instruction booklet is skimpy and answers almost none of the questions you might have. This is offset by a truly wonderful Help module. The subject listing is thorough, and step-by-step tutorials walk you through complex processes. Nevertheless, customizing Windows 95 is no simple task.

Users who are away from their primary location face a different set of problems. Two of these problems loom large. Windows 95 is a huge program, taking up twelve floppy disks. When I travel, I need to carry all twelve with me to ensure that I will be able to print. Each time I connect to a different printer, I have to install a new driver. With the older versions of Windows 3.x, I only had to carry a few disks with me. If you installed Windows 95 from CD-ROM and don't have the floppies, all of this becomes even more difficult, albeit lighter.


Norton File Manager - \\MICROSOFT*.*
File Disk Edit View Tools Options Window Help
Name
Type
Start

Figuring out how to call up the applications and navigate from program to program is easy and intuitive, but making Windows 95 look and work the way you want is quite a different matter.

The second problem is connecting to bulletin boards and other net services. Windows 95 is configured to work well with the Microsoft Network and nothing else. When I first installed Windows 95, I spent quite a bit of time getting it to work with my Internet service provider. On the road, I simply find it too difficult to access the Internet with Windows 95. One simple solution is to use a basic communications program

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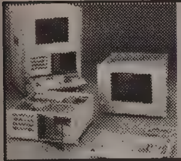

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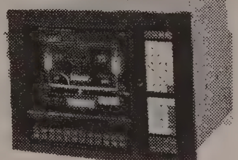

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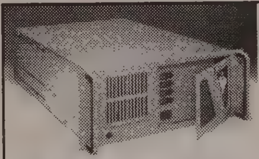

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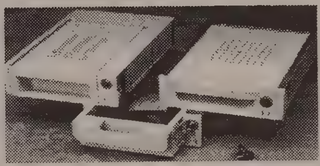

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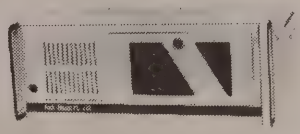

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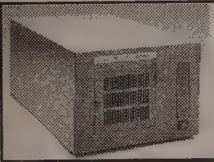

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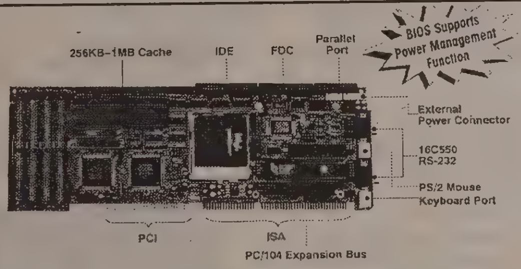

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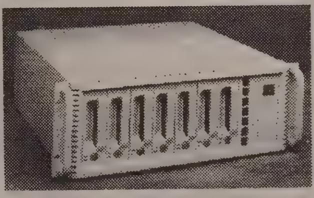

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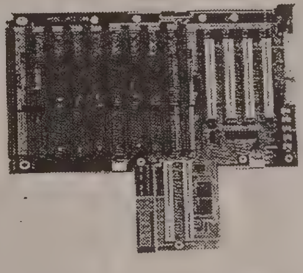

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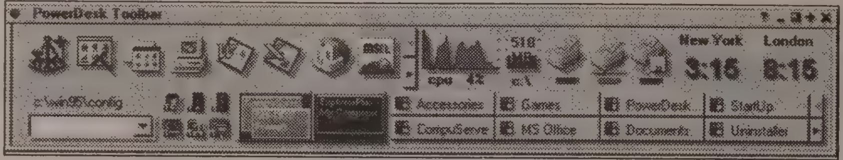
that does not work with the Windows 95 interface. I like the old Telix program that runs in DOS. With Telix, however, I am limited as to what I can do online.

The whole purpose of Windows 95 is to make computing easier. For the most part, it does this — once you have it set up properly. Luckily, there are third-party products designed to make working with Windows 95 easier.



The premiere program of this kind is Symantec's Norton Navigator. It has a lot to offer and many devoted fans. One of its advantages is that it lets you customize the desktop for specific projects you're working on, putting all of the tasks you will use right at your command. Norton Navigator also lets you zip and unzip files almost instantly, conserving disk space.

Windows 95 allows you to use file names that exceed the old limit of eight characters plus three more in the extension. This feature attracted many people to Windows 95. However, unless you are using new programs written for Windows 95, you're still stuck with the old eight plus three. Norton Navigator allows you to use long, descriptive titles even if you are working with programs that do not support this feature.

The second program I examined in hopes of improving Windows 95's ease-of-use is PowerDesk, an offering from MicroHelp, the people who introduced the first really good Uninstaller program. PowerDesk offers many of the same benefits as Norton Navigator, but it is not quite as extensive. Its main benefit is a toolbar you can customize in order to move quickly from application to application without having to use complex menus or minimize other programs you're running.

While both of these programs perform as advertised, I simply have not been able to find enough advantages in them to justify leaving them on my computer. Each is well constructed and works flawlessly, but I just don't find the need for the shortcuts their interfaces offer. ■

RESOURCES:

Norton Navigator, $99
Symantec Corp.
2500 Broadway
Santa Monica, CA 90404-3063
1-800-441-7234

PowerDesk, $49.95
MicroHelp, Inc.
4211 J.V.L. Industrial Park Dr. NE
Marietta, GA 30066
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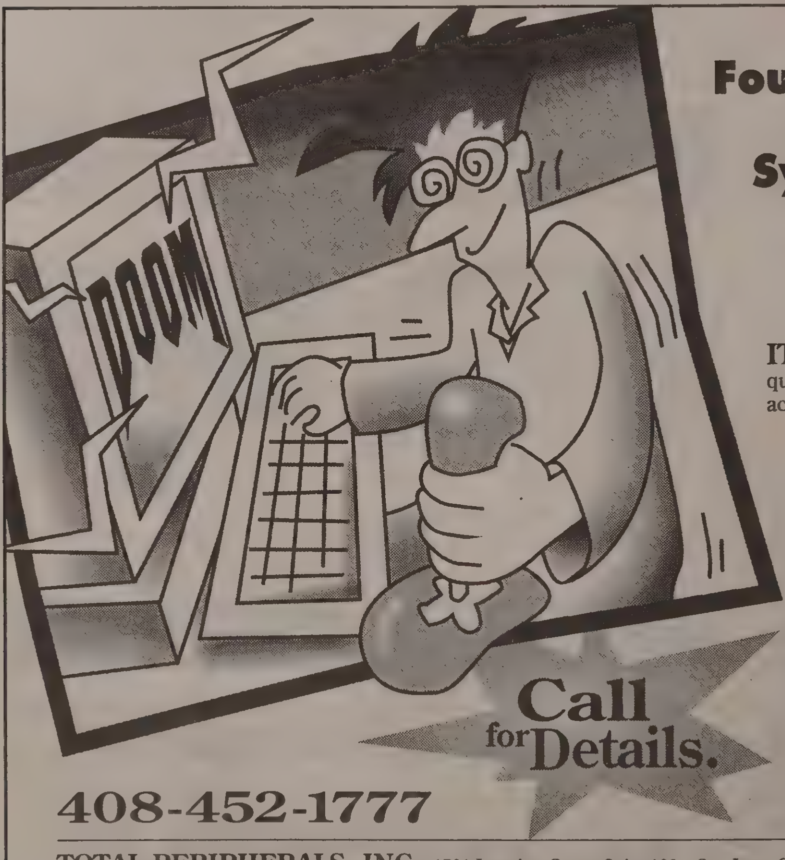

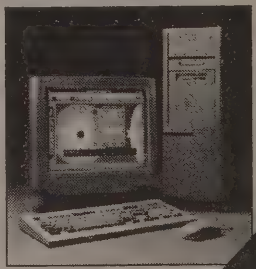

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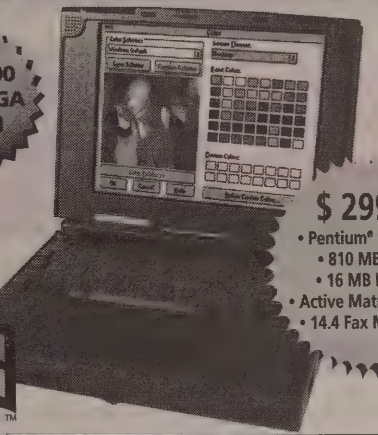

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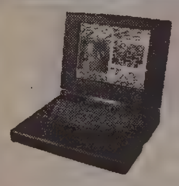

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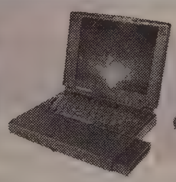

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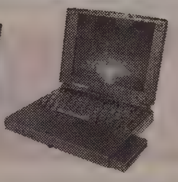

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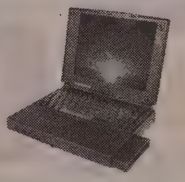

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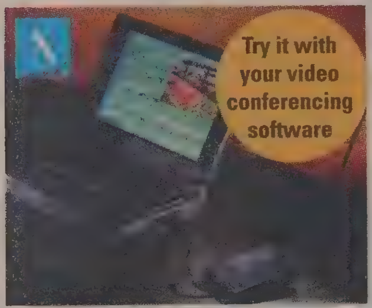

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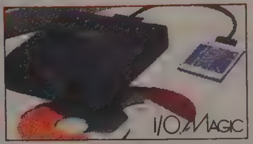

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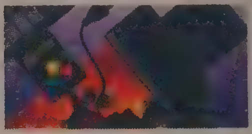

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Computer Of The Month

Texas Instruments Extensa 450

The Extensa line of notebooks, Texas Instruments' latest entry in the laptop market, competes head-on with "no name" portables. At $1699, the entry-level Extensa 450 offers many standard features, making it difficult to beat on the price/performance ratio.

Powered by a 75MHz Intel DX4, the Extensa 450 comes with 4MB of RAM, expandable up to 32MB, and a removable 340MB hard disk. While many computers include larger hard drives, this one is certainly adequate for word processing and spreadsheets. If you need more storage, it is easy to replace with a larger drive.

The Extensa 450's design is modular-unit-friendly. It ships with a removable floppy drive, which can easily be swapped for either a second battery pack or an additional PCMCIA slot. The primary battery pack is nickel metal hydride. The optional battery pack ($199) is lithium ion, which has a longer life and is currently the top-of-the-line battery option. The PCMCIA slot takes Type I or Type II cards; an optional module ($199) accepts Type III cards.

The Extensa 450 weighs 5lbs. and measures 11.7" x 1.7" x 8.2". Despite its compact dimensions, the keyboard has a nice feel. But you can, of course, easily attach a keyboard of your choice through the PS/2 port on the back of the machine.

My main complaint is the Extensa 450's touchpad, a pointing device built into the palmrest. Though I generally prefer touchpads to the pointing devices found on portables, this one was a problem from the start because the pointing arrow is too small, which makes it difficult to see on the screen. The instruction manual says the characteristics of the pointer and the touchpad can be changed, but as Texas Instruments' technical support informed me, in fact there is no way to alter them. Apparently the manual was printed before the computer was finished, and there was no way to incorporate this last-minute change. But with the exception of the touchpad, this computer is terrific. I would not hesitate to buy an Extensa (though I would use a mouse instead of the touchpad).

The Extensa 450's dual scan display measures 10.4" diagonally. You can attach an external monitor through the video port on the back of the unit. Texas Instruments also includes a small port replicator, which plugs into an expansion port to provide a serial port, video port, and keyboard port. This second keyboard port makes it easy to attach both a full-sized keyboard and a mouse.

If you want to leave peripherals connected in your primary location, use the Full Function Port Replicator ($129). An infrared unit on its back side can function as an additional serial port when "connecting" to a similarly equipped computer or peripheral. More and more equipment comes infrared-ready these days, removing some of the need for actual cables.

The Extensa 450's design is modular-unit-friendly.

The Extensa 450 comes preloaded with Windows 95. It is covered by a standard one-year limited warranty, and Texas Instruments provides phone assistance twenty-four hours a day. If you are looking for an inexpensive portable, this is definitely one to consider—especially since you could easily spend more on a computer whose manufacturer may not be in business when you need service or support. ■

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RESOURCES:

Extensa 450, $1699
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UNIX • BY BENNETT FALK

The All-Night UNIX Cafe

Technical Wisdom In The Strangest Of Places

Realizing that months had passed since any novices had been admitted to their company, the gurus took decisive (if not exactly well-advised) action.

The problem is cultural, they reasoned. The amount of money spent on UNIX hardware and software had never been higher. But this commercial success was apparently disconnected from the UNIX outlook. Big bucks were being spent on UNIX machines and software, but no one gave two hoots about the ideas on which UNIX was based.

The gurus' decisive action was to open the first UNIX theme cafe.

The cafe endured a couple of false starts. It first opened as an upscale bistro named "The Raw and the Cooked." This seemed to confuse passersby. For those who did enter, the prospect of a white-jacketed waiter saying something like "Hi, my name is ucbvax.berkeley.edu and I'll be your server tonight" was unnerving. And of course, some diners were bewildered by the lack of menus.

The cafe closed briefly for repositioning and reopened as a traditional American diner under the name "Ken's Hash House." The new cafe's only overt connection with UNIX was a little shrine by the cash register that featured a replica of a New Hampshire license plate bearing the name "UNIX" and the New Hampshire motto "Live Free or Die."

Guru Bernice's Customer Service

Late one very rainy night a young man stepped into the diner, peeled off his rain parka at the door, and sat down at the counter. Ken was in the kitchen and Guru Bernice was taking care of the dining area. There was no one else in the place.

"Cuppa hot java, please," the young man said.

Bernice eyed him thoughtfully, wondering if the young man knew more than he let on.

"Here y'are, hon." She handed him a cup of strong, black coffee. He took a sip, put the cup down, and ran his fingers through his hair.

"Whassa matter, hon? You look beat."

"Just a hard day, that's all."

Bernice fixed him with a knowing eye. "I bet you do computer work."

"Yeah. How'd you guess? Ah, never mind." He sipped at his coffee again and looked at the mimeographed list of daily specials.

"So, tell me," Bernice continued, "what's bothering you?"

"Well, if you really want to know, my boss asked me to run a benchmark suite. It measures Internet application performance. Great idea.

> "It's just like that nice Mr. Kernighan said twelve years ago: 'The power of a system comes more from the relationships between programs than from the programs themselves.'"

"Naturally we didn't have a copy of the benchmark programs, so I looked around on the net and found a site that had the latest version available via FTP. They had it in a compressed tar file, but that's no biggie. I downloaded it, decompressed it, and extracted all the tar file's contents.

"What the tar file contained was the C source code for the benchmark suite. Well, that's cool. I'm no engineer, but I can run a compiler. There was a README file, so I read it. There was a makefile, so all I had to do to compile the whole suite was run 'make,' which I did."

"Now isn't that a coincidence," Bernice interjected. "Just the other day Ken and I were talking about how wonderful it was that there were programs like make to automate this whole business of compiling and linking. All you need to do is create a file with the rules for some complicated procedure and then you let make act on those rules to complete the procedure. It will run the compiler and the loader and almost anything else for you."

The young man stared at Bernice trying in vain to understand why a waitress in a diner would understand make.

"Well, since you understand this stuff," he continued, "the makefile was set up to use the native C compiler (cc), but the machine where I did the compilation was running an older version of the operating system and the native C compiler didn't understand ANSI C, which is what the benchmark's source code used. The make command spit out lots of error messages and eventually reported that the errors were fatal. So it stopped without compiling anything."

"That certainly sounds serious," Bernice replied modestly.

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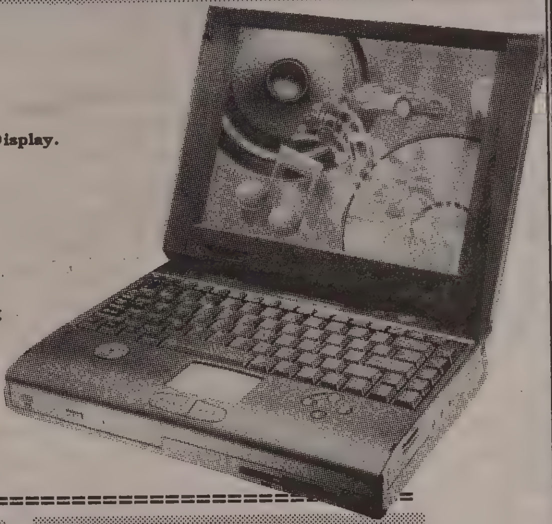

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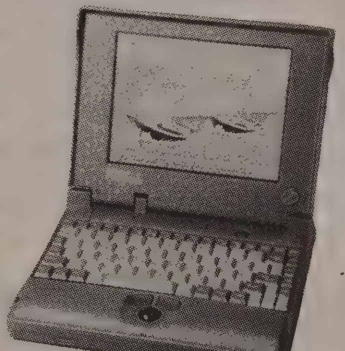

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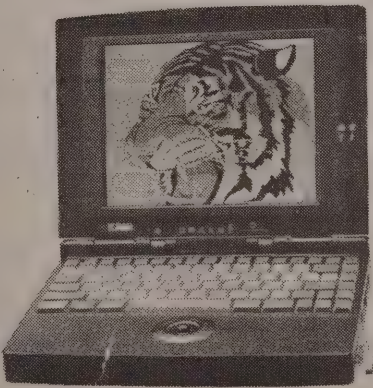

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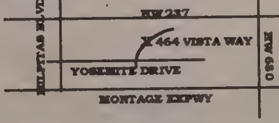

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UNIX *continued...*

"Yeah, but it isn't really. I looked at the makefile and noticed that it contained a suggestion for invoking the GNU C compiler (gcc) instead of the native compiler. Heck, I didn't even know if gcc was installed on the machine I was using, but I checked and it was, so I edited the makefile to invoke that instead.

"Bingo! It worked like a charm. Everything compiled just fine. Now all I have to do is run the benchmark.

"I checked the README file again and discovered that there was a shell script that would do all the configuration that was needed for actually running the tests. I ran the configuration script, and it's looking around for all the supporting utilities it needs. It printed out the message 'Looking for perl5' and then whammo! 'Can't find perl5. Must have perl5 to run. Exiting.'"

Perls Of Wisdom

"Now, perl," Bernice ventured, "isn't that the scripting language that does all the clever things with pattern matching and the like? Sort of like awk, but with more features?"

"Yes, exactly. It turns out that the benchmark uses perl scripts to collate its results, and the scripts depend on some features of perl v5. Well, let me tell you, I was fit to be tied. I looked in /usr/local and there was a perl installation, but it was v4. I looked all over the place, but there was no perl5 installed on that machine."

Bernice refilled his coffee cup.

"When it was clear that perl5 wasn't there, I said, 'Hey, no problem. I'll just get it from the net.' I did a quick search and found a place where I could FTP the perl5 software. When I got logged in to that site, they had perl5 all right, but they only had it in tar files that were compressed with GNU zip (gzip), and I didn't have any idea if gzip was installed on my machine or not."

Bernice peered over her reading glasses at him. "Mercy, this is getting complicated."

"Indeed. Anyway, I downloaded the compressed-with-gzip tar file and started looking for gzip. No dice, but hope springs eternal: If you can find perl on the net, you can probably find gzip there, too. Before long, I'd located an FTP site and downloaded a compressed tar file with the source code for gzip.

"I decompressed it, extracted the contents of the tar file, and ran make again to compile my copy of gzip and gunzip. Worked like a charm."

Bernice took the glass cover off the pie stand and cut a large wedge of lemon meringue pie. She put the pie on a plate and slid it toward the young man.

> **"What is this? Is this one of those 'The Journey Is the Reward' things?"**
> **"No, hon. The lemon meringue pie is the reward."**

"Thanks," he said. "So once I put the gzip utilities in my local directory, I could decompress the perl5 tar file. That worked

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2	9:00 - 12:00	Saturday Technical Seminar: ManageWise
6	5:30 - 7:30 pm	Novell Night School: Client 32 for DOS/Win 3.x
7	9:00 - 12:00	Manage Your Network with ManageWise *Presented by Novell and Dataflex Corporation*
13	8:30 - 12:00	Connecting Your World Solutions Roadshow *End users & 1:30 - 5:00 Resellers*
14	9:00 - 12:00	The Only Solution is a Complete Solution— *Presented by Novell & Cheyenne*
14	5:30 - 7:30	Novell Product Education and Certification Programs — *Presented by Novell and Dataflex Corporation*
21	9:00 - 12:00	Putting Your Business on the Internet
27	9:00 - 12:00	How to Integrate Windows 95 in Your NetWare Network
29	9:00 - 12:00	NDS Basics
29	1:00 - 4:00	NDS Advanced

APR.	TIME	SEMINAR
9	9:00 - 12:00	LAN Basics
10	9:00 - 12:00	Novell Product Education and Certification Programs — *Presented by Novell and Innovative Solutions, Inc.*
12	9:00 - 12:00	Technical Open Forum
16	9:00 - 12:00	BrainShare Recap: Network Solutions
17	9:00 - 12:00	BrainShare Recap: Messaging Solutions
18	9:00 - 12:00	BrainShare Recap: Messaging Solutions
27	9:00 - 12:00	Saturday Technical Seminar: Migrating to NetWare 4.1

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14	9:00 - 12:00	Connecting Your Novell Network to the Internet — *End Users*
14	1:00 - 4:00	Connecting Your Novell Network to the Internet — *Resellers*
26	9:00 - 12:00	GroupWise Architecture
28	9:00 - 12:00	NetWare SMP: Solutions For Downsizing Your Network Server Requirements — *Presented by Novell & Edge IS*

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2	9:00 - 12:00	NDS Basics
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9	9:00 - 12:00	NetWare SMP
11	9:00 - 12:00	NetWare IP: Running A Pure IP Environment on NetWare
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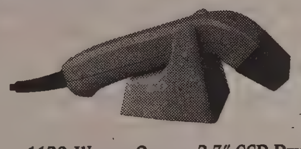

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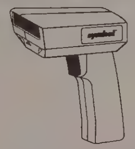

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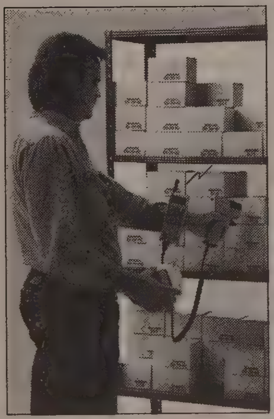

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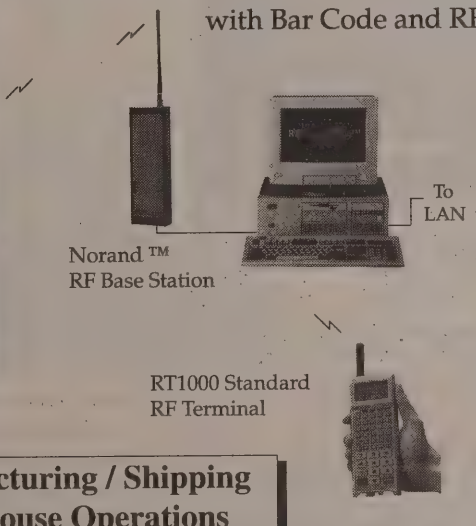

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Data Automation Systems, Inc. 1659 Scott Blvd., Suite 26, Santa Clara, CA 95050 **(408) 983-0449** Fax: (408) 983-0416 okay, and I extracted the perl5 source code with no problem.

"Perl is very cool. It uses a configuration script to build a makefile tailored to your machine. It's a long script, takes fifteen or twenty minutes to complete, and it asks you a few questions about your machine's architecture and C compiler. Along the way, it tests many of the features of your machine and prints out opinionated messages about your machine's development environment.

"The problem is that I didn't know the answers to some of the questions the configuration script asked. In fact, I didn't even understand all the questions. For anything I didn't know or understand, I just accepted whatever default value the script proposed. This turned out okay, at least, the configuration script ran without error and created some makefiles. Make, too, ran without error, and at last I had a version of perl5.

"By the way, can I get a cheeseburger and fries?"

"Sure thing, hon." Bernice turned toward the kitchen and yelled the order to Ken, who confirmed the order by repeating it. "So then what happened?"

"Let's see, now I had perl installed, so I could go back and run the configuration script for the benchmark suite, and it ran just fine, and I was finally ready to run the benchmark for the very first time.

"The programs seemed to run just fine, but they were never able to make a network connection so there was never any performance for them to measure!"

Lunch-Counter Troubleshooting

"Let me guess," Bernice ventured. "The old version of the operating system on your machine used something other than DNS (the Domain Naming System) conventions to resolve host names to IP addresses."

The young man regarded her warily. She looked away and fussed with her hairdo. "Well, I don't know the details," he said, "but yes, that's what it boils down to, and at 11:30 at night after a thirteen-hour day, I'm not about to launch into a crash course in host name resolution."

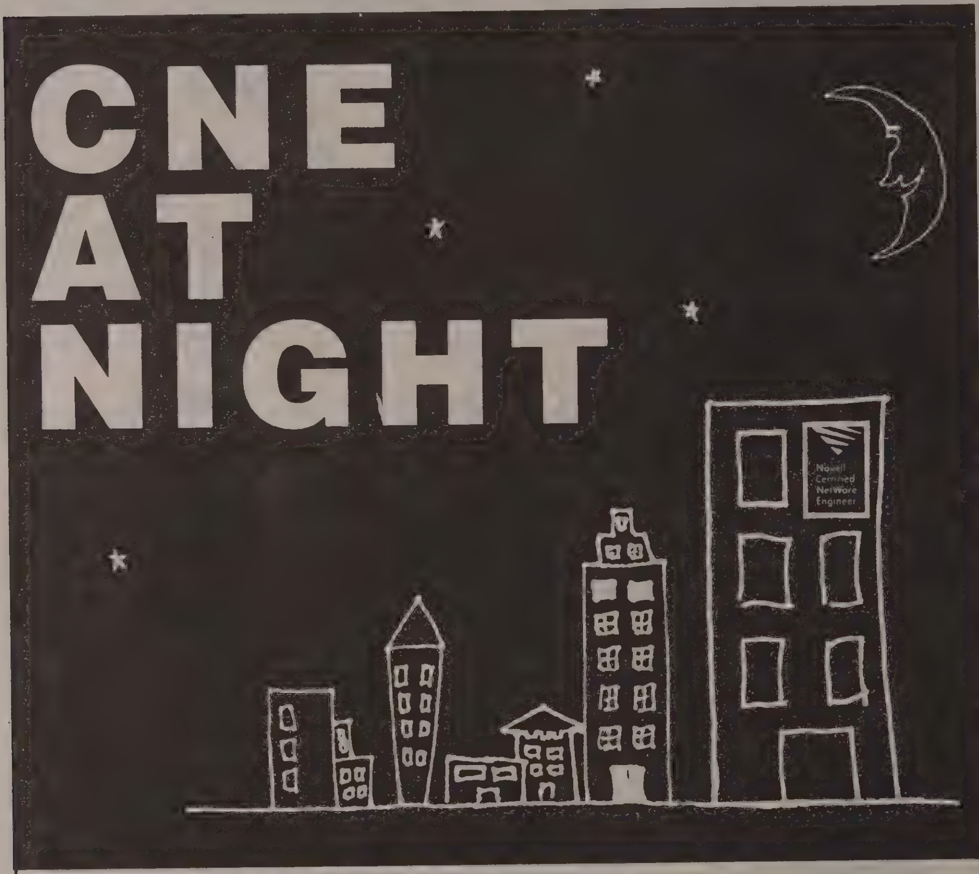
"Quite right," Bernice put in.

"I did, however, find another machine on the local net with a newer version of the OS that used DNS name resolution. I decided to use that machine, but that meant having to recompile the benchmarks and perl on that machine. Fortunately I could use the perl tar file I'd already produced, so I wouldn't need to move GNU zip to the new machine. By now I pretty much knew what I was doing."

The cheeseburger and fries arrived. Bernice refilled his coffee cup.

"I moved all the files over to the new machine, and decided that I'd compile perl first. I reran the perl configuration script, and this time it bombed out almost immediately because it couldn't find the C compiler!"

Bernice slapped the counter triumphantly:



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UNIX *continued...*

"Ha! I'll just bet you it's one of those new computers with a fancy development environment that's installed in some nonstandard directory. And even after you find it, the compiler probably expects to be run from a GUI interface and doesn't work worth beans from a command line."

Unsure what to make of Bernice's enthusiasm, the young man shifted anxiously on the stool and continued his story: "At any rate, I reran the configuration script and told it to use the GNU compiler. That got a little further, but the script was unable to compile a test program that it uses and things rapidly disintegrated after that."

Bernice peered at him over her reading glasses. "I'll bet they did just exactly that, yes, indeed."

"Yep," he said.

"Uh-huh," she said. There was a brief silence.

"So I gave up," the young man said. "I think I'll phone in tomorrow and quit."

"Oh, hon, don't do that!"

"But nothing works. How the heck am I supposed to get anything done when nothing works?"

"Wait a minute, wait a minute! Lots of things work. By my tally you just used two operating systems, three C compilers, two compression programs, FTP, and a bunch of shell scripts. And I think all those things work, it's just that they don't work *together*."

"In my book that's pretty much the same as not working."

"Exactly! It's just like that nice Mr. Kernighan said twelve years ago: 'The power of a system comes more from the relationships between programs than from the programs themselves.'"

"Great. Where is Kernighan when I really need him?"

"Oh, don't be such a dim bulb. Look at all the neat stuff you figured out how to do. If you hadn't been working with a UNIX system, you'd have been on the phone to tech support this morning and you'd still be on hold. Instead, you got to do all those clever things."

The young man looked around at the empty diner. "What is this? Is this one of those 'The Journey Is the Reward' things?"

"No, hon. The lemon meringue pie is the reward." ■

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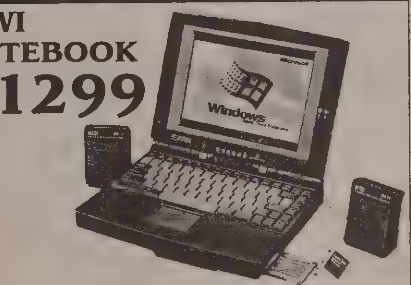

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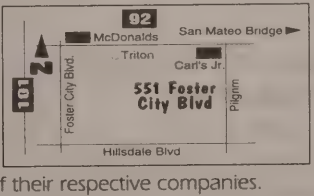

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OS/2 • BY FABIAN PASCAL

V.34—How Fast Can You Go?

Real Modem Speeds Under OS/2
Part II

Last month I discussed the basic issues in V.34 communication under OS/2 and described my software and hardware configuration, namely:

- serial ports and the OS/2 drivers
- Practical Peripherals PPI288LCD V.34 external modem
- Computer Peripherals VIVA V.34 external modem
- OS2CIM for library browsing/downloads on CompuServe
- TE/2 for BBS connections
- Tapcis for email and forums on CompuServe

This second article describes the configuration of serial ports and modems, as well as some simple tests I ran. It provides the results as a rough measure of how close to V.34 performance you can get in common circumstances.

Configuration

The relevant settings for the purpose of this discussion are the port (DTE) rate and the modem's initialization string, both configured via the software.

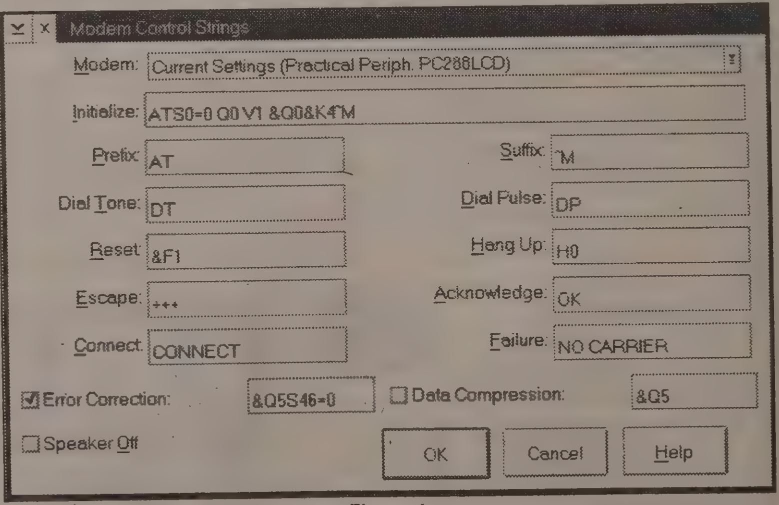
For BBSes, the best you can usually do is a DTE rate of 57,600bps, the maximum supported by the IBM OS/2 serial drivers and, thus, the most likely rate set by OS/2 BBS operators. Since CompuServe sets its port rate at 38,400bps, you won't gain much from a higher rate.

Factory Settings And Beyond

Modems come with factory settings in their nonvolatile memory that let them negotiate the best connection in various circumstances. On the other hand, communication software usually comes with settings for various modems and/or targets (e.g. CompuServe) that may or may not be identical to the optimal/factory settings.

> **The quality and bandwidth of the phone lines, the other modem, responsiveness of your computer and the host, and so on, may vary from call to call—even to the same number!—and may fluctuate during one session, too.**

If your modem has a factory optimum, you should use it and let the modem "do its thing." The PPI288LCD's factory settings, for example, are invoked with AT&F1, which includes the Hayes generic string and more, possibly proprietary commands. Depending on your modem, communication software, and target, you may have to alter the string you start with—for example, by trying the software's setting for your specific modem, for a model by the same manufacturer, or the Hayes-compatible string. But do that only if you run into problems.



Modem: Current Settings (Practical Periph. PC288LCD)
Initialize: ATS0=0 Q0 V1 &Q0&K4^M
Prefix: AT
Suffix: ^M
Dial Tone: DT
Dial Pulse: DP
Reset: &F1
Hang Up: H0
Escape: +++
Acknowledge: OK
Connect: CONNECT
Failure: NO CARRIER
☑ Error Correction: &Q5S46=0
☐ Data Compression: &Q5
☐ Speaker Off

Figure 1

(The quality and usefulness of software and modem manuals and tech support varies. For example, PPI's manual is limited, but it has a reasonably responsive support team on CompuServe and more detailed documentation available for downloading. CPI has a reasonably good manual, but an unresponsive support forum. The OS2CIM manual is skimpy, Tapci's is much better and its forums are quite responsive.)

OS2CIM has two panels for settings. The port and its rate are set on the first—I set mine at CompuServe's 38,400bps. The modem initialization string is set on a second panel by clicking on the Modem button on the first. Many modems are supported, the PPI288LCD among them (Figure 1). For the VIVA V.34 I

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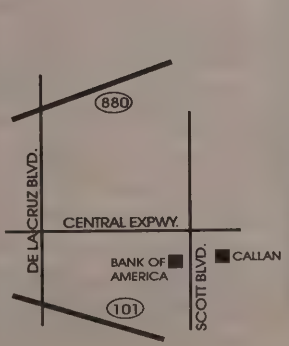

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Figure 2

chose the string for another VIVA model, but I ran into problems and changed it to the Hayes generic string.

TE/2 supports a long list of modems too and prompts you to choose one during installation, for which it creates a MODEM.INC text file, invoked via the program's TE2.INI file. The .INC file displays the initialization string for the modem, which you are asked to type in when you first invoke TE/2. The program writes it in the modem's memory and issues the ATZ command (in the .INC file), which retrieves the string from memory.

A simpler approach is to substitute your modem's string (AT&F1 for the PPI) for the ATZ command in the .INC file using a text processor, and it will be issued instead. The chosen COM port is recorded in the .INI file.

The port rate is set in TE/2's dialing directory for each BBS (Figure 2). I set a 57,600bps rate for all BBSes. In Tapcis, the port, its rate, and the modem initialization string are all set on a Setup Modem panel option on the main menu (Figure 3). Tapcis comes with Hayes generic settings. I started with that, but ran into quirks—failed logons or stuck sessions; for unclear reasons, AT&F1 would not always work either. With some trial and error and help from vendors/users, I ultimately ended up with the string in Figure 3. DOS programs in general and communication ones in particular may require adjustments to their session settings. Listing 1 shows the ones for Tapcis provided by another user who found them effective. (VDM communications are quirkier and slower than native OS/2 communications, which may explain the problems with the initialization string. On a few occasions data already transmitted by Tapci's came back as received text, as if it had been sent back by CompuServe. Tapcis' developer blames a bug in the OS/2 serial driver. It was reported to IBM, but they required more information than was available to isolate and fix it.)

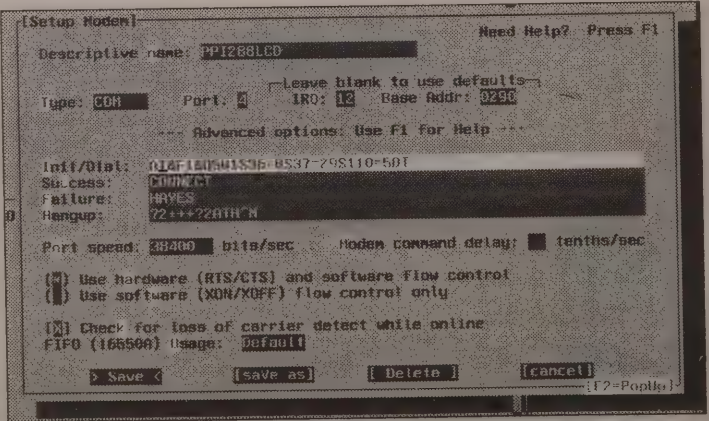
Make sure that you set hardware flow control (CTS/RTS) for both the serial port and modem.

```
COM_DIRECT_ACCESS = OFF
COM_HOLD = OFF
COM_RECEIVE_BUFFER_FLUSH = NONE
COM_SELECT = ALL
DOS_BACKGROUND_EXECUTION = ON
DOS_BREAK = ON
DOS_FCBS = 16
DOS_FCBS_KEEP = 8
DOS_FILES = 45
DOS_HIGH = ON
DOS_RMSIZE = 640
DOS_UMB = OFF
DPMI_DOS_API = AUTO
DPMI_MEMORY_LIMIT = 0
EMS_FRAME_LOCATION = AUTO
EMS_HIGH_OS_MAP_REGION = 32
EMS_LOW_OS_MAP_REGION = 384
EMS_MEMORY_LIMIT = 2048
HW_NOSOUND = OFF
HW_ROM_TO_RAM = ON
HW_TIMER = ON
IDLE_SECONDS = 15
IDLE_SENSITIVITY = 75
INT_DURING_IO = ON
VIDEO_FASTPASTE = ON
VIDEO_MODE_RESTRICTION = CGA
VIDEO_ONDEMAND_MEMORY = ON
VIDEO_RETRACE_EMULATION = ON
VIDEO_ROM_EMULATION = ON
VIDEO_SWITCH_NOTIFICATION = ON
VIDEO_WINDOW_REFRESH = ON
XMS_HANDLES = 16
XMS_MEMORY_LIMIT = 1024
XMS_MINIMUM_HMA = 0
```

Listing 1: DOS Session Settings for Tapcis

Measuring Performance

Performance is best measured on file downloads, because they are devoid of much slower human interaction and less susceptible to how busy the host computer is. The maximum theoretical throughput under the V.34 standard is 3600cps, so with ZIPped files the DTE rate (5760cps for BBSes, 3840cps for CompuServe) is not, therefore, the limiting links.

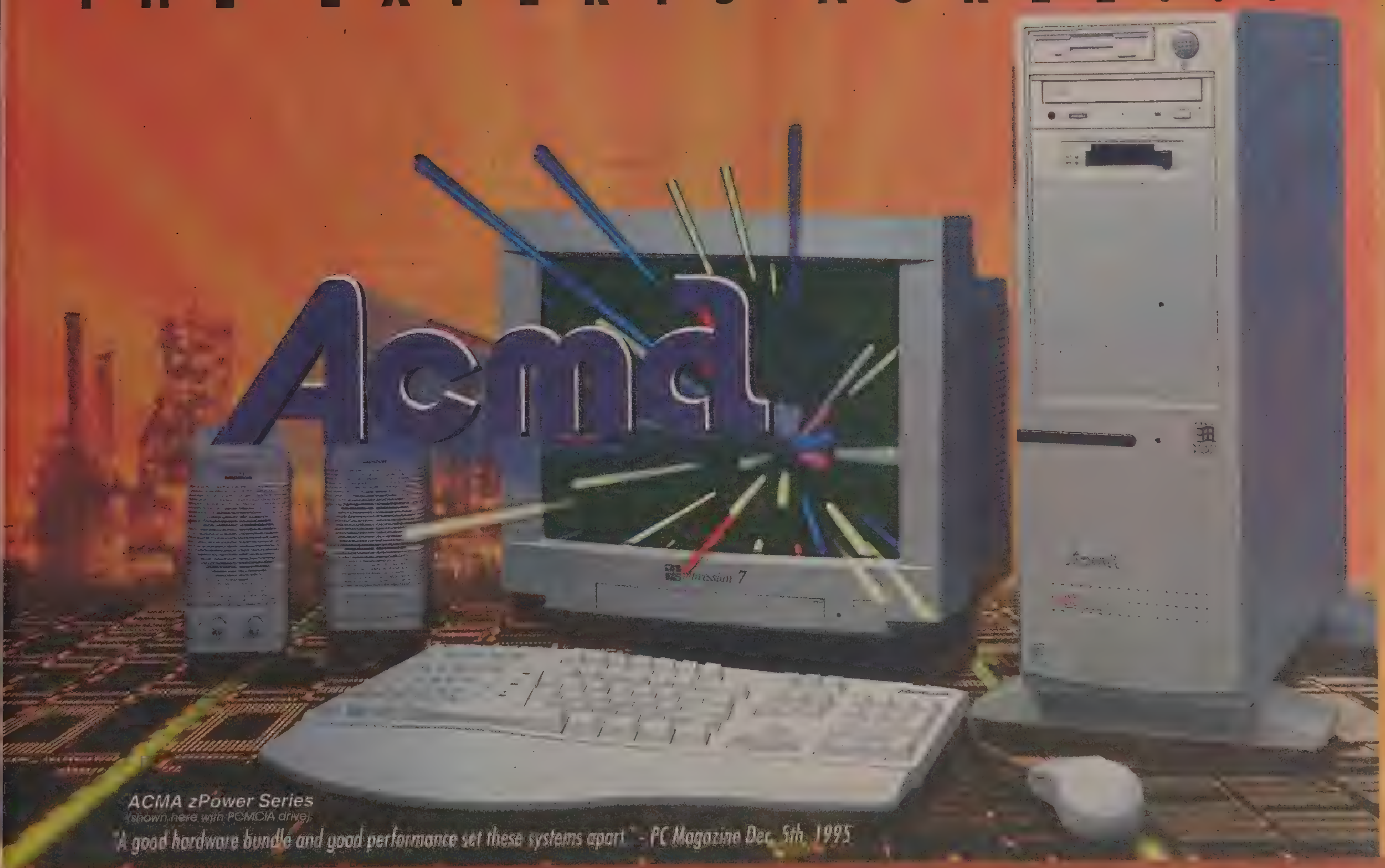


```
[Setup Modem]                                      Need Help?  Press F1
 Descriptive name: PPI288LCD
                             ┌Leave blank to use defaults┐
 Type: COM      Port: 4     IRQ: 12   Base Addr: 0290
                 --- Advanced options: Use F1 for Help ---
 Init/Dial:  AT&F1&D5S41S36=8S37=29S110=50T
 Success:    CONNECT
 Failure:    HAYES
 Hangup:     ~~+++~~ATH^M
 Port speed: 38400 bits/sec      Modem command delay:   tenths/sec
 [X] Use hardware (RTS/CTS) and software flow control
 [ ] Use software (XON/XOFF) flow control only
 [X] Check for loss of carrier detect while online
 FIFO (16550A) Usage: Default
   > Save <      [save as]      [ Delete ]      [cancel]
                                                        [F2=PopUp]
```

Figure 3

When it comes to the modem-to-modem link, it is not possible to separate one's modem performance from other affecting factors, except in highly controlled tests. For example, the quality and bandwidth of the phone lines, the other modem, responsiveness of your computer and the host, and so on, may vary from call to call—even to the same number!—and may fluctuate during one

THE EXPERTS AGREE...



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OS/2 Clarion	Tampa Bay, FL	(813)832-3851	V.34	1,406,891B
Comp. Educ. Svcs.	Seal Beach, CA	(310)596-7825	V.34	1,075,610B
CompuServe	local	296-9513	V.34	1,243,446B
IBM NSC	Durham, NC	(919)517-0001	V.32b	1,130,316B

Table 1

session, too. With different compression standards, modems may handle ZIP files differently (under V.42bis they won't try to compress a noncompressible file, but under MNP5 they may actually expand a compressed file somewhat). There is also communication overhead due to error checking and retransmission and the modems' packetizing of data (which one expert estimates at 5–10%).

The best the average user can do is to compare actual download times to what V.34 allows. This can serve as a very rough measure of how close one can get, in reality, to maximum throughput, given *all* factors affecting performance.

I downloaded with each modem one ZIPped file of over 1MB from three BBSes equipped with V.34 modems, as well as from CompuServe via the local 28,800bps node (see Table 1). The IBM BBS, operating at 14,400bps, served as backwards comparison with 14,400 performance under the V.32bis standard.

I measured actual download times and recorded the connection rates negotiated between the two modems, which were 24,000bps for all V.34 BBSes, 28,800bps for CompuServe, and 14,400bps for the IBM BBS. I then calculated:

1. the actual throughput in cps, by dividing the file size in characters (same as size in bytes) into the download time in seconds;
2. the throughput in cps for the negotiated rate between the two modems, by dividing the bps rate by eight;
3. the difference between the negotiated throughput and the actual throughput, as a percentage of the negotiated throughput; this is a rough measure of actual performance relative to modem-to-modem performance; and
4. the difference between the V.34 throughput and the actual throughput, as a percentage of the V.34 throughput; this is a rough measure of actual performance relative to the theoretical V.34 performance (3600cps).

Throughput, as a measure of performance, is inversely related to download time—the greater the throughput the shorter the time—which is what you usually pay for.

The results for the two modems are presented in Table 2. The first row in the table shows actual throughput. Both modems achieve similar performance.

BBS connections were 8–10% slower than the connect performance and 23–25% slower than theoretical V.34 performance with both

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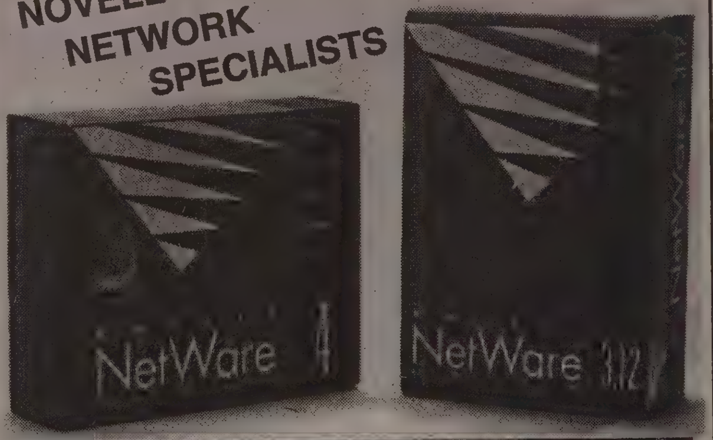

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OS/2 *continued...*

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File size: Port rate: Modem:	1,136,472B 5760cps PPI VIVA	1,406,891B 5760cps PPI VIVA	1,075,610B 5760cps PPI VIVA	1,243,446B 3840cps PPI VIVA	1,130,316B ? PPI VIVA
Actual Thruput (cps)	2758 2719	2780 2716	2723 2703	2569 2715	1619 1619
Connect Thruput (cps)	3000	3000	3000	3600	1800
% of Connect	- 8 - 9	- 7 - 9	- 9 -10	-29 -25	-10 -10
% of V.34	-23 -24	-23 -25	-25 -24	-29 -25	-55 -55
Faster than V.32bis	1.7 1.7	1.7 1.7	1.7 1.7	1.7 1.6	N/A N/A

Table 2: Performance Results

modems. With CompuServe, performance was slower by 25–29% than the connect rate which, at 28,800bps, is the V.34 theoretical maximum. That this slower performance occurred with the maximal connect rate is probably an indicator of how slow CompuServe is in feeding the data to the serial port—either because of heavy use, slow storage devices, or both. Unfortunately, the slower the response, the more money you will be charged—a potential disincentive to the service to improve performance.

In the last row I divided the actual throughput for the three BBSes and CompuServe by the actual throughput for the IBM BBS, operating at the slower V.32bis 14,400bps standard. Thus, 28,800bps communication is not twice, but

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continued on page 200

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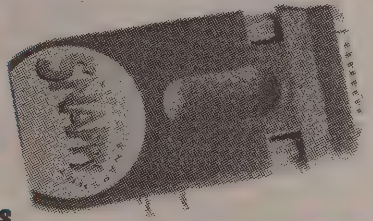

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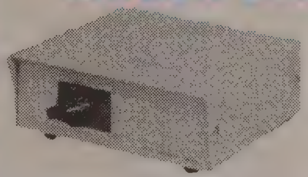

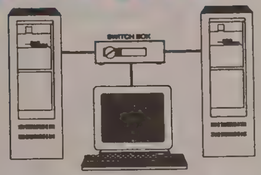

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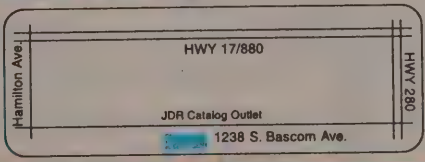

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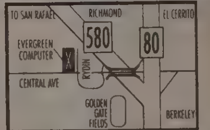

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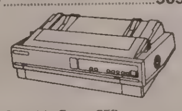

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We want the one all-purpose program that captures pictures and files, prepares them for transfer, contacts the other machine, and handles the exchange. We would like the Windows washed at the same time, please.

I have not run across that perfect software yet. We can put together those functions, though, with a pastiche of programs and utilities which are available now.

Of each program we are putting together to do a compound function, we should ask the same questions:

- What does it do?
- What does it *not* do?

And a question of increasing importance—

- Does it integrate?

The last question asks if the program or utility has facilities to collaborate with other programs—communications, the ability to be a client or server for the other, and observance of common file standards. The most ingenious program devised is useless if other programs (and other people) cannot use what it makes.

SnagIt32: Just Let Me See It

The good people in the *MicroTimes* layout department have been annoyed with me for some time now. I keep sending them Windows bitmap files in .bmp format. Because *MicroTimes* is a Macintosh house, they find these Windows 95 graphics files uncouth. They have been wanting changes.

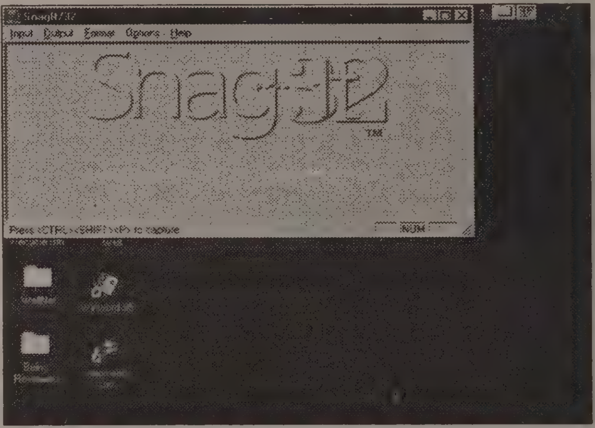
With this new graphics capture utility, perhaps I can improve their lives. It is SnagIt, a $40 screen capture program from TechSmith.

SnagIt will capture from any Windows display, taking all of it or any designated part of the screen. Before capturing an image, you must choose both the sort of input and the sort of output you want. You can select the section to be captured by name ("last active window," for instance), or by marking it out with your cursor.

Output can be direct to the printer, to the clipboard, or to a file. File types are Windows .bmp and .bmp compressed, the old .pcx Windows Paintbrush format, JPEG at image qualities of 50% and 75%, and TIFF files. It is the latter the layout folks will be glad to see.

The most ingenious program devised is useless if other programs (and other people) cannot use what it makes.

SnagIt comes in two versions. One is for the Windows 3.1 user. A second, a native 32-bit version, is for the Windows 95 user. You are licensed to use them both.



Snagit32 uses a simple menu-only interface to control screen captures.

Snagit32 also can be operated by other programs, using Dynamic Data Exchange commands. You have the other program load and run SnagIt as if it were a part of that other program. Then anything that appears on the screen can be saved to a file.

You might have data arriving by modem and being processed by Microsoft Excel, with graphs being produced on-screen. Excel (using DDE) could summon SnagIt to capture the graphs as each was made, and then let a mail program distribute them to clients. SnagIt complies with the Mail Application Programming Interface standard as well, so its images can be sent through any MAPI-compliant mail program.

This utility captures Windows screens, con-

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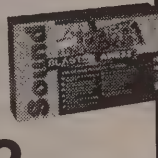

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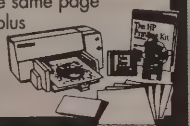

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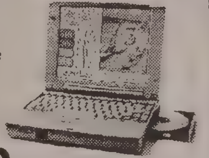

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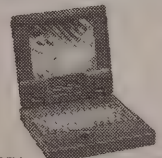

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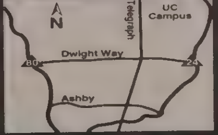


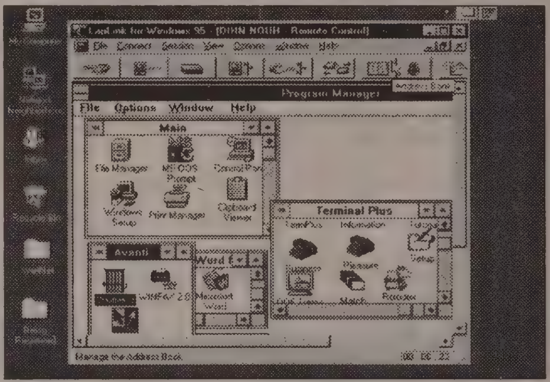
Small Office/Home Office *continued...*

verts them, and readies them for export. It is highly integrable because it supports DDE. I do wish it included a viewer.

LapLink

Occasional readers of this column may recall that I used a decision-making program to consider getting a new computer. My steam-powered, coal-burning 33MHz just didn't seem the prize it once was.

The program (DecideRight, from Avantos, 1-800-282-6867) helped me see that a direct purchase was a better investment than a piecemeal upgrade. So I went for it.



This Windows 95 computer is remote-controlling a Windows 3.1 computer connected to it by modem.

The new machine was fast, sleek, capable. It had hard disk room to spare—hard to believe that a few weeks earlier I had been deleting every program as soon as I reviewed it, to make room for a new one.

But like all good fortune, the new machine brought new work to do. I had to get all the stuff from the old machine to the new device. There was a mass of data in the old machine. Hundreds of megabytes needed to be moved to the new computer.

The tedious business of putting it on a disk and then installing it onto the new machine (over and over) was not at all appealing.

One solution might have been to use the mini-network that comes with Windows 95, which would make it possible to move the files over a cable between the two machines.

This simple, appealing solution was thwarted in my case. I was not able to install new elements on the old computer. I had a legal CD of Windows 95, but I did not have the CD-ROM drive to make use of it. The people at NEC who had loaned me their attractive six-speed drive for the CD-ROM review (published last year) were so selfish as to want it back. I had a copy of Windows 95 on the old machine, and no way to add networking to it.

You turn LapLink on and it works, without giving you the chance to explore the options menu or test the deepest layer of preferences. Good software is like that: boring, almost, in its reliability.

Many years ago, when portable computing involved 8 and 16K machines from Tandy, there was a company that always had a solution. It was

continued on page 202

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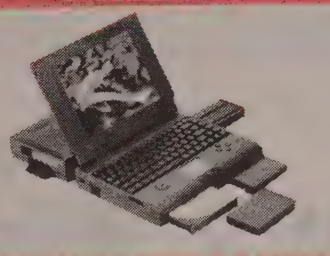

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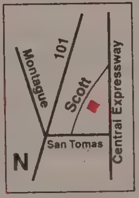

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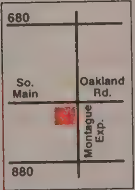

ACCOUNTING • BY DAVID A. SIMON, CPA AND JENNIFER R. CHERNISS

U.S.-State Differences In Technology Business Tax

Like New World And Old World Monkeys, U.S.-California Tax Differences Increase As Time Goes By

Computer professionals in California are increasingly perplexed by differences between federal income tax rules and those applied by the state. This discussion highlights tax law differences as they affect technology industries, with some tips on how to take maximum advantage of both.

It wasn't always this way. California income tax law once closely followed federal tax law. In many instances, the state actually incorporates federal language into California law, but only with the federal law as it read before 1993.

In days of yore, whenever there was a major federal change, California would routinely pass legislation to conform its tax law. This hasn't happened since Congress enacted the Revenue Reconciliation Act of 1993, with little Republican support. Republican legislators in Sacramento then thought it best not to follow what they perceived as the Democrat's tax agenda in Washington.

> California is still using the Internal Revenue Code largely as it existed and was interpreted four years ago.

Taxpayers thus face the confusion of complying with two unmatching sets of tax laws. The California legislature cherry-picked a handful of federal provisions while enacting various new ones with no IRS counterpart, such as the Qualified Manufacturing and Research and Development Equipment Credit (which we covered in the March 6, 1995 issue of MicroTimes).

Even after the slow boil of public pressure led the state legislature to finally pass conforming legislation, it was vetoed by Governor Wilson. A spate of more recent legislative attempts have also failed. As a result, California is still using the Internal Revenue Code largely as it existed and was interpreted four years ago.

Survival Of The Biggest

Politics and special interests have further pushed the divergence of federal and state tax law. A theme emerging from the changes is that California selectively bestows tax benefits to large corporations in the computer industry while passing over or disfavoring small, independent programmers and developers.

As an example, through an expense election, computer equipment can often be fully written off in the year of purchase, rather than being slowly depreciated. This benefit is clearly targeted for small fry, in that both federal and state limits top off at amounts of little significance to multi-million dollar corporations, and then phase out. Federal law sets the amount of property eligible for the expense election at $17,500 (at press time, Congress is considering raising this limit to $25,000). But for California, only $10,000 of property (the pre-1993 limit) is eligible, providing what amounts to a substantially smaller break for small business.

If you spend over the $10,000 limit, you may be able to increase your deductions by not treating certain purchases as capital expenditures. Regulations limit what will pass muster, but there are ways to keep your purchases off the "equipment" list and into a current expense category instead. Arguably, a megabyte or two of RAM might be written off as an office expense, a replacement cooling fan considered a repair, and your keyboard and mouse "minor property." When in doubt, some tax preparers advise attaching a protective statement to your federal return indicating your intent to currently deduct those items "pursuant to Code Section 179."

A Punier R&D Boost

Software and hardware developers often benefit from both the federal and state versions of the research and development tax credit. The credit expired for federal purposes but, as we go to press, pending legislation may reinstate it retroactively. Even assuming federal reinstatement, however, there will still be substantial differences between the two species.

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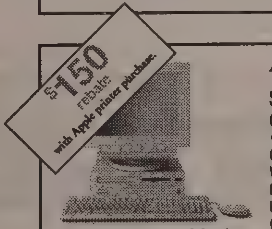

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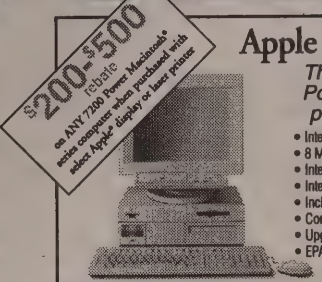
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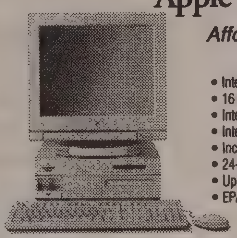

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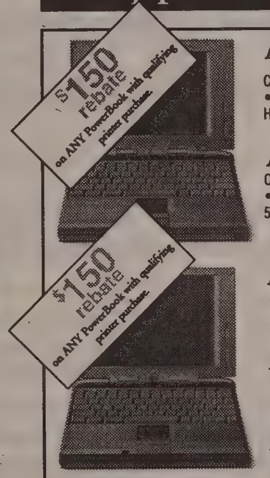
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First, only research activities that actually take place in California qualify for state credit. Moreover, for purposes of computing the amount of credit, only gross receipts from the sale of property delivered or shipped to customers within California are taken into account. Tracking such transactions can induce migraines in the accounting department.

Unlike the IRS, California allows no credit for "basic research payments"—research done by universities and scientific tax-exempt organizations—even if you hire a state institution to do that research. Thus, a specialized consultant or a firm with few personnel is at a disadvantage compared to the company with sufficient in-house R&D staff. Moreover, whereas the IRS allows the credit only for basic research payments, the California credit encompasses applied research (such as developing manufacturing technologies), from which a small fry is unlikely to benefit.

There are various R&D computational differences too. California imposes its own lower limits in computing the credit but, unlike the IRS, allows unused R&D credits to be carried over to future years. Federal law provides that the deduction for expenses related to research must be reduced by the amount of the federal research credit, whereas California denies deduction of that portion of the expense equal to the amount of the California credit.

Given the many software developers benefiting from R&D credits, the inconsistencies between state and federal rules may result in a substantial compliance burden, but both should be considered in your tax planning strategy.

In 1994 California enacted a credit specifically covering the costs (among others) of computer software used in specified research and manufacturing activities (also explained in the March 6, 1995 MicroTimes). It returns 6% of the cost of qualified property to the taxpayer. Those specified activities, not surprisingly, tend to be associated with activities of certain big business contributors and lobbyists with the resources to bend a state legislator's ear.

For example, qualifying businesses specifically include manufacturers of computers, logic modules, computer storage units, and terminals. Nonqualifying businesses include freelance software writers, computer wholesalers and retailers, and custom software system analysts.

Tax year 1995 is the first year for which this credit can be claimed. Because it has no direct federal counterpart on which to rely for precedent and guidance, you'll need to be extra alert for quirky opportunities when preparing your tax returns.

Selective Agreement

Not that California hasn't conformed to any federal changes since 1993. On the contrary, SB 671, the Omnibus Business Tax Incentives measure, provides some conformity by lowering the deductibility of business meals and entertainment from 80% to 50%. Now, for every dollar

continued on page 84

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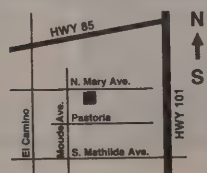

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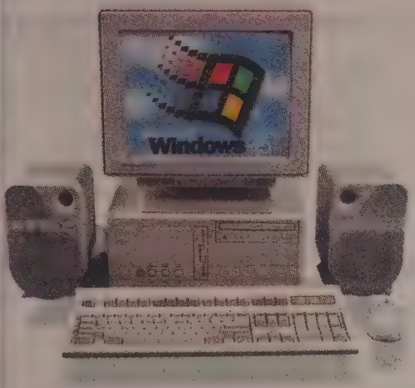

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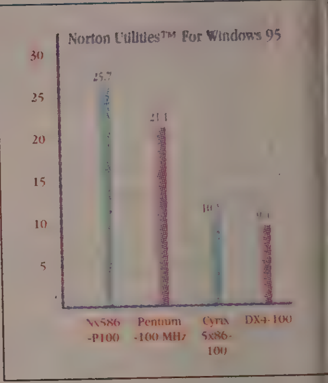

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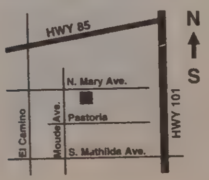

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Accounting *continued from page 78*

spent on business meals, you can deduct only fifty cents. The impact of such a change on computer industry professionals is bound to be most sorely felt by small and independent entrepreneurs for whom such expenses can represent a greater proportion of the cost of doing business.

Consider an MIS consultant who travels away from home a great deal in the course of installing networked systems. The consultant estimates the cost of all meals while traveling, using an IRS-prescribed per diem allowance. If meal and incidental expenses are claimed by this allowance, the entire amount—even nonedible dry-cleaning—is treated as a food and beverage expense subject to the 50% limitation.

The law therefore taxes much more than the two-martini lunch. Indeed, this isolated item of conformity was originally estimated to raise about $85 million per year for the state. Ironically, the legislative history shows that it was enacted partly as an effort to help offset the revenue loss from the Credit for Manufacturing and Research Property, which bestows preferential benefits on big business.

There is one other bill, SB 1880, that particularly affects computer folk. This bill brings California law in lockstep with Internal Revenue Code Section 197 regarding the treatment of intangible assets when a business is acquired. The rules are somewhat complex, and also spell bad news for small software developers.

Section 197 says that computer software, if acquired in connection with the purchase of a business or a substantial portion of one, generally must be slowly depreciated—over fifteen years by the straight-line method. There is an exception for shrink-wrapped software, defined as software that is readily available for purchase by the general public, that is subject to a nonexclusive license, and that has not been substantially modified. Packaged programs thus are not subject to the unfavorable depreciation rules. Of course, this saving exception is usually of little consequence to small software developers who are in effect penalized with a lousy depreciation incentive.

To illustrate, let's look at the person who's been burning the midnight oil in the garage for the last three years developing new source code. Now a company finally wants to buy it. Because the software constitutes a substantial portion of the developer's business—pretty much all of it—it will likely fall under the slow depreciation rule. This drives the value of the developer's sale down because it can be fifteen years before the buyer can fully write off the product's cost. Indeed, the buyer might be better off developing the code in-house or purchasing it from a larger competitor, since the source code wouldn't constitute a substantial portion of the larger firm's business.

Keeping Start-Ups Down

Other examples support the state legislature's bias against small, high-tech firms and for large, politically influential ones. Under federal law, gain is deferred on the sale of publicly traded securities rolled over into certain investment entities (called SBICs) that invest in small business stock eligible for a new 50% exclusion from income. This federal provision increases the flow of venture capital to technology start-ups. California has simply not matched this federal

continued on page 206

RESOURCES:

John J. Pavalasky, Legislative Services Bureau, California Franchise Tax Board.

W. Daniel Converse, Tax Policy Specialist, Legislative Services Bureau, California Franchise Tax Board.

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About a year ago I agreed to write a manual for a rather complicated program in an active stage of development. I naively supposed that what this meant was to figure out how to use the software and to explain this in a book. Imagine my surprise when I discovered after a week of meetings with the developers that the task also included the preparation of on-screen help files. About which I knew Absolutely Nothing.

The developers recommended a help authoring program and bought me a copy. I took it home and did the tutorial and practiced on dummy files and then began the laborious process of actually applying it to the matter at hand. As Chapter 1 (of twelve) neared completion, the time required to do anything quickly increased. Word Basic errors appeared. Compiling was something to be done overnight.

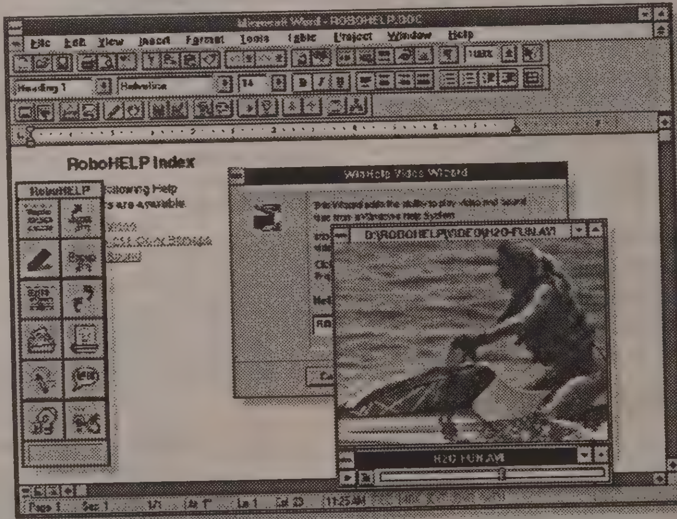
A cry for help on the Internet brought a suggestion that I try RoboHELP. I did, and I have not looked back since.

RoboHELP To The Rescue

RoboHELP is a help authoring tool for Windows, Windows NT, and Windows 95 that piggybacks on Microsoft Word (v2.0 and 6.0) to produce both on-screen help systems and print documentation. This is done by using Word templates specific to RoboHELP.

Its tutorial was clear, easy to follow, and it covered enough ground to introduce all the basic functions of the program. It explained which files were produced and what they were for. The instructions included every keystroke and mouse click necessary to create a help project; add and edit graphics; create hypertext jumps, macro hotspots, and pop-up definitions; add secondary windows; and finally compile it all into the familiar help file format with green hotspots and graphic buttons.

I spent a happy afternoon doing all this. And then came the acid test. Returning reluctantly to my project, I converted Chapter 1, added a few hypertext jumps, and compiled, religiously following the richly detailed instructions given in the tutorial.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RoboHELP Index
RoboHELP
WinHelp Video Wizard
D:\ROBOHELP\VIDEO\H2O-FUN.AVI
H2O FUN.AVI
Page 1 Sec 1 1/1 At 1" Ln 1 Col 23 11:25 AM

In mere seconds a window appeared whose final line said: "Project was made successfully with no errors."

With trembling mouse I clicked on the Test Project button, and Lo! what should appear but...my project. I clicked on one of my official green hypertext jumps and the right topic appeared. I went back and tried another, and it worked too.

Error Location

During the ensuing weeks Chapter 1 emerged from its conservative textual cocoon into a gaudy creature spangled with hotspotted graphics, secondary windows (five), pop-up explanations, and cunningly designed icons. I also learned a good deal more about the workings of RoboHELP, especially the Error Location Agent.

With the enthusiasm of a convert I set about producing whole libraries of graphics, both screen captures (which RoboHELP's detailed instructions made invitingly simple) and hand-crafted images from MS Draw. Converting these to Shed hypergraphics became a spinal reflex. I added glossary definition hotspots, navigational graphics, how-to windows. I sprang from topic to topic like a wallaby on a sugar high. And then I compiled...and discovered the Error Location Agent.

You invoke this wonderful device by clicking on the @!# button after compiling. A (sometimes depressingly) long list appears enumerating each and every blessed error found during the compilation. So you select one. If you are not exactly sure what the error message means, you can click on the Explain button for a more detailed description. Click on the Locate button and

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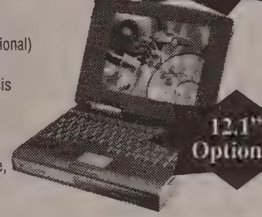

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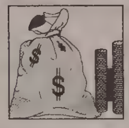

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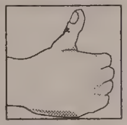

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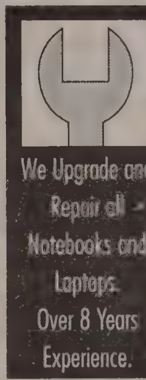

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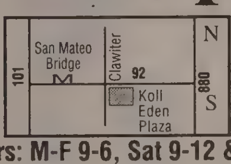

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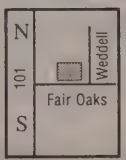
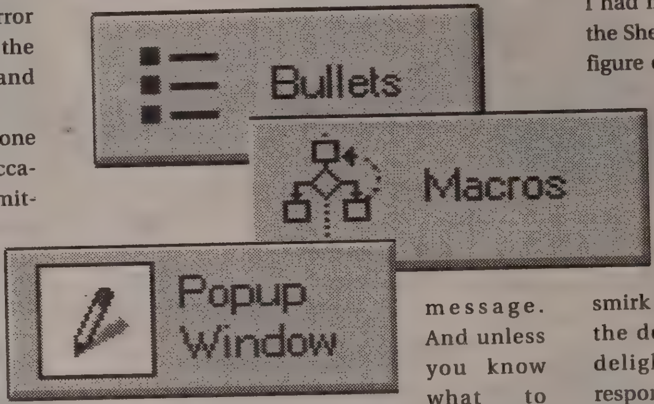


RoboHELP 3 *continued...*

RoboHELP flips through your project and finds the topic that contains the error. Now you just find what needs to be changed and change it. Slick. Then you return to the error list, which is still there at the bottom of the screen, and repeat the process—again and again and again.

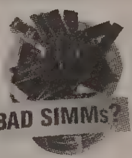
Well, no ointment is without bugs, and one of the bugs that gravely threatened my occasionally sweet disposition was the intermittent introduction (by RoboHELP) of errors while creating hypertext jumps into secondary windows. When all is well, what you do is select the text you want to turn into a green hotspot. Then invoke the Help Jump Hotspot function, which allows you to pick out the topic to jump to; choose the name of the secondary window you want the topic to appear in; and RoboHELP assembles all this into an instruction appended to the chosen hotspot text in the form Destination_Topic_Descriptor>WindowName. All of this is in Hidden format. Except, sometimes WindowName is not—then you get an error message. And unless you know what to look for, you can stare fretfully at the screen for hours before the solution emerges. These errors accounted for more than half of my first crop.

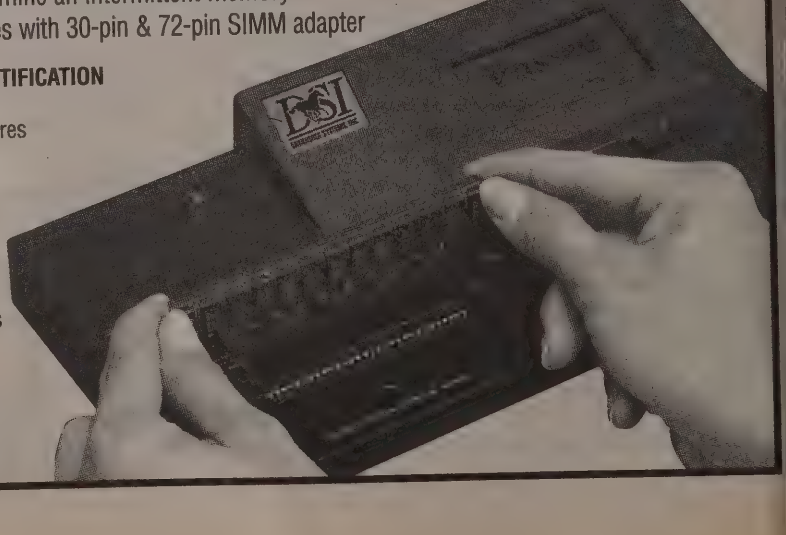


The second most numerous error category was "Invalid Context String," which turned up in several of my gaudier hotspotted graphics. This turned out to be accidental hotspots that I had made with inadvertent mouse clicks in the Shed Editor. Again it was a five-star pain to figure out the problem, but trivial to fix, once discovered.

Fine Tuning

After a steep and arduous learning curve I triumphantly achieved my goal: "Project was made successfully with no errors." With a self-satisfied smirk I sent off the product of my labors to the developers and awaited their cries of delight. After an awkward silence they responded. Um, they said (not wishing to hurt my feelings), aren't the pop-up definitions a bit long? Do we need to have all that stuff in Browse? How do you get out of the graphics window? How do you get back to the beginning? What does the little green icon with the





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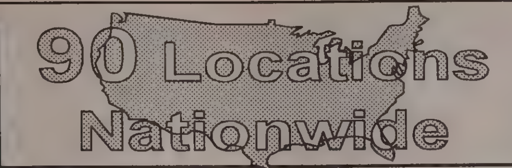

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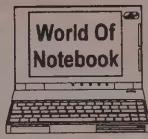

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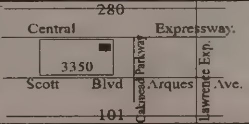

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- 1.44 Teac Floppy Drive
- Medium Case with 230W PS
- MS Windows 95 CD-ROM V.
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- Intel Pentium Processor with heatsink & fan
- 16MB Performance-Enhanced Memory
- 1.62G EIDE Hard Drive Conner/Maxtor
- Diamond Stealth 64 with 2MB VRAM PCI
- 17" ViewSonic 17GS .28 DPI Monitor
- 6X Toshiba CD-ROM Drive
- Sound Blaster 16-Bit Stereo Sound Card
- Yamaha 10 Watt Stereo Speakers
- 28.8 Voice/Fax Modem
- 1.44 Teac Floppy Drive
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- MS Windows 95 CD-ROM V.
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133MHz	$2538
150MHz	$2648
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- Intel Endeavor PCI Motherboard
- 512K Pipeline Burst Cache, Flash Bios
- Intel Pentium Processor with heatsink & fan
- 32MB Performance-Enhanced Memory
- 1.62GB 9ms EIDE Hard Drive WD/Conner
- Matrox MGA Millenium with 2MB VRAM PCI
- 17" NEC SVGA .28 DPI Monitor
- 6X Toshiba CD-ROM Drive
- Sound Blaster 16-Bit Stereo Sound Card
- Yamaha 10 Watt Stereo Speakers
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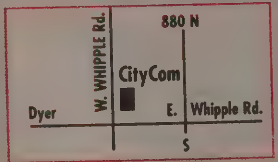

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squiggle mean? And many other similar questions.

Phase two, therefore, involved removal of many of my graphical excesses, most of the secondary windows, and all but two icons; and a pretty thorough exploration of the fine-tuning features of RoboHELP, including adding keywords, controlling the browse sequence, specifying secondary windows, link testing, assigning context IDs, and managing more than one help document within the project.

Again the estimable Error Location Agent proved invaluable; but coming in a close second was the link tester. This technological wonder is a toolbar that can be enabled during editing and that simulates the actions of the actual help engine such that it is possible to test the hypertext and keyword jumps without having to compile.

Integrating And Converting

Having at length completed a couple of preliminary chapters suitable for testing in conjunction with the software I was trying to explain, it was an easy matter to supply the developers with the context ID numbers they needed to associate the appropriate topics in the help file with the required fields or screens in their program. Unless you tell it otherwise, RoboHELP creates a map file for each help document you produce that lists each topic's unique identifier (a name you specify at the time you create the topic) along with a sequential context ID number that is automatically assigned. The developers then use this number to attach the context-sensitive help buttons to the applicable sections of the help file. This map file is a simple text file that you can read (and edit at your peril) using a simple text editor such as Notebook.

The last stage in the help process is converting the rigidly formatted on-screen help document into a simple Word document stripped of footnotes, green text, and other arcana of the on-screen document. This is done simply by choosing the Export Documentation function and selecting the appropriate options, directories, and so forth. The product of this exercise is a standard black-and-white Word document that can now be edited as you would any other Word document. The graphics are just inert graphics, green text is now black. Former text hotspots are underlined as they were in the original RoboHELP document. (You can get rid of this using Word's Replace function.)

This brings to mind another fine feature that I wish I had discovered six months ago and that I have not yet found in the manual. As you work your way through the process of creating topics and jumps and browse sequences and so forth, your document gradually fills with green text and hidden text, mysterious symbols and footnotes and special formatting; and you get an almost superstitious anxiety about touching any of this in spite of the Error Location Agent. But it turns out that if you go ahead and change a topic heading (default Heading 1) to another heading, say, Heading 4, nothing will happen. You will still compile without errors and the topic will appear right on schedule, only with Heading 4 format. Where this discovery brings a smile to the lips is when you export the documentation. Then you can drop a previously

continued on page 329

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Definitions And Decency

A New Word

This column has been "*Exonerated*" to bring it in conformance with the Exon Law.

"*Exonerate*", v., *to expurgate, to bowdlerize, to dumb down to the level of the most sensitive child in the most repressive state.*

Only a couple of months ago, this column reported: "Congress Close to Internet Censorship." Well, it's happened. On February 1, 1996, both the House and the Senate passed the Telecommunications Reform Act of 1996 by overwhelming margins. This bill includes Internet censorship provisions even worse than those that appeared in the first version co-sponsored by Sen. James Exon (D-NE) one year ago to the day.

President Clinton signed the bill into law February 8, 1996. In anti-celebration, thousands of web pages turned black for 48 hours as the Internet reacted. See *http://www.vtw.org* for more about that.

In that previous column we noted that "The proposed CDA and the Constitution are in conflict. If CDA becomes law, it will certainly be challenged in the courts on that basis, if not others." The ACLU filed suit immediately, as did various other organizations. Two columnists for this magazine (Jim Warren and myself) are parties to one of those lawsuits.

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In commemoration of Sen. Exon's role in producing this law, this columnist will refer to it hereafter as the Exon Law.

Abortion And Indecency

It turns out Congress did provide another basis for the lawsuits by adding a prohibition against dissemination of information about abortion. The ACLU suit partially focuses on that issue.

Ironically enough, Rep. Patricia Schroeder (D-CO), who insisted on putting the term "indecent" back in the Exon Law after it had briefly been removed in the House-Senate conference committee, objected to the introduction of the prohibition against discussion of abortion. This goes to show that one person's definition of indecency isn't the same as another's.

She did succeed in getting verbal assurance from the sponsor of the abortion prohibition, Rep. Henry Hyde (R-IL), that simple discussion of abortion would not be prohibited, only commercial dissemination of information on how to actually perform abortions. He thus asks us to trust him that the letter of the language he used (the Comstock Act) does not mean what it says, or that previous judicial precedents have invalidated it (which is debatable).

President Clinton, after signing the Telecommunications Act into law, said that the abortion provisions would not be enforced. Perhaps not under his administration, but what about President Dole or President Buchanan? Is this the way the rule of law is supposed to work?

Abortion, The Exon Law, And The Comstock Act

The abortion provision is based on the Comstock Act, which is a nineteenth century law aimed at taming the Wild West by prohibiting the use of the US mail for such "indecent" practices as mail-order brides and abortion discussions. The Comstock Act is supposedly no longer valid because of court decisions against it. However, in the case of the abortion provision, the court decision in question is *Roe v. Wade*, which many people are actively working to overturn.

Note well that this law would prohibit not just actual abortions, or literature on how to perform abortions, but also *discussion* of the pros and cons of abortion. If you want to argue on the Internet that abortion is evil because the Old Testament says so, you'd better hope this law is repealed, unless you want to land in jail.

The relevant text is in Title 18, Section 1462 of the US Code. Here is the text of that section, with amendments to it by the Exon Law marked in boldface:

Importation or transportation of obscene matters. Whoever brings into the United States, or any place subject to the jurisdiction thereof, or knowingly uses any express company or other common carrier ***or interactive computer service (as defined in section 230(e)(2) of the Communications Act of 1934),*** *for carriage in interstate or foreign commerce -*

[...]

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In the Bible, for example, Numbers 5:11-27 contains direct references to sexual intercourse, menstruation, adultery, and indirect mention (by function, rather than by name) of a herbal abortifacient. Put the Bible on the Internet; go to jail.

The Bill Of Rights

Let us repeat here the more basic issue:

Congress shall make no law respecting the establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the Government for a redress of grievances.

That is the First Amendment to the US Constitution. It is part of the Bill of Rights, which was appended to the Constitution because many states refused to ratify the Constitution without safeguards against just such heavy-handed government intervention as this law.

The Bill of Rights, and the First Amendment in particular, was worked out in painstaking compromise among multiple competing political traditions in this country. They were worded to accommodate diverse traditions without letting any one of them repress the others. In the world then and now, this is not a small thing.

This country has for the most part managed to honor the commitment made in at least the First Amendment through almost 200 years, and such diverse administrations as those of John Adams (proponent of the ordered liber-

THE BILL OF RIGHTS, AND THE FIRST AMENDMENT IN PARTICULAR, WERE WORKED OUT IN PAINSTAKING COMPROMISE AMONG MULTIPLE COMPETING POLITICAL TRADITIONS IN THIS COUNTRY.

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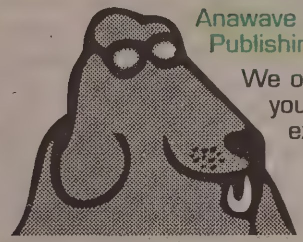

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Internet *continued...*

ties of New England), Thomas Jefferson (protector of the reasoned liberties of Virginia), Andy Jackson (advocate of the natural liberties of the backcountry, and considered so radical in his day that his predecessor John Quincy Adams left the Capital in disgust before his inauguration), Franklin Roosevelt (of the New Deal), and Ronald Reagan (who tried to dismantle the New Deal).

The Bill of Rights is under attack from all sides. The Fourth Amendment, for example, says:

> *The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no Warrants shall issue, but upon probable cause, supported by Oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.*

That Amendment deserves at least a decent funeral, since it has been killed by the so-called War on Drugs. Nobody cares as long as it is some drug dealer's house that is being broken into by the SWAT team. And if it's the wrong house, well, they should have known better than to live in that neighborhood!

Similarly, who cares if the First Amendment is violated on the Internet? Everyone knows it's just a pornographic nest of child molesters!

Evidently the US Congress doesn't care. Of course, when the main proponent of this legislation, Sen. Exon, says on the floor of the Senate that he doesn't even know how to program a VCR, and in a letter to the editor of the *New York Times* equates the Internet with the telephone, it perhaps shouldn't be surprising that they don't care. Ignorance is certainly part of the problem.

What Is The Internet?

Is AOL part of the Internet? Are telephones? And what does this have to do with a bad law?

Well, most AOL users are not part of the Internet, because they do not use characteristic interactive Internet services such as TELNET, FTP, or WWW. Sure, many of them use electronic mail, but it's not electronic mail that's attracting so many people to the Internet that it's growing faster than any other technological phenomenon in history, and it's not electronic mail that's causing people to abandon most other types of networking in favor of the Internet. Most users of CompuServe and Prodigy are not part of the Internet, either, for the same reason. They will be pretty soon, but they aren't yet.

Yet 100% annual growth apparently isn't good enough for some people, and the term "Internet" has often been loosely used to include people who only have electronic mail access.

Why does this matter? Well, every actual case of child pornography I've ever heard of involving any kind of computer network involved AOL, not the Internet. Why AOL? Because it has a very inexpensive and relatively

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Internet *continued...*

anonymous trial user policy that lets basically anybody online with little or no accountability, financial or otherwise.

So what? Well, many people think that all of AOL is part of, if not synonymous with, the Internet. Sloppy definitions have given an easy target to those who don't like the traditional freedom of content of the Internet. The Internet in many people's minds is now "that sewer of child pornographers."

What Is Indecent?

If you don't want to spend two years in jail and pay $500,000 in fines, don't "make available" any pictures or descriptions of any sexual activity, discussion of abortion, gay rights, literary criticism or actual text of Chaucer, Boccaccio, James Joyce, Mark Twain, or J.D. Salinger. The first two dealt with all manner of sexual and religious topics that are sure to be considered "indecent" by somebody somewhere; Twain dealt with race and politics; and Salinger dared to say that people masturbate and use curse words.

We're not even talking "obscenity" here. The law says "indecent," which is a much more broad and vague term. How is it defined in the law? It isn't. Definition is left to local jurisdictions and vague legal precedents.

What does "make available" mean? Anything that might lead to a child seeing it through a computer network, including posting it on USENET, putting in a Web page, or even sending it by personal electronic mail (it's no excuse that somebody stole it and showed it to the child).

Also remember not to post transcripts of any exon that Richard Nixon said in the White House. Don't name Deep Exon, the principal snitch against him. Don't refer to "Give 'em Exon Harry" Truman by his popular epithet. Don't mention that John Kennedy was given to exoning starlets.

See how easily a prohibition on "indecency" slides into a prohibition on political free speech? Euphemisms don't give the true character of the original language. For that matter, discussion of the Exon Law itself on the Internet is apparently prohibited by that same law, because it involves discussion of means of abortion.

Recently I was in France and was reading *Paris Match*, a national magazine. On the cover was a picture of Gerard Depardieu, the movie actor, holding his small son on his arm. Something seemed strange, and it took me a while to figure it out. The child was naked, and his genitals were clearly visible. If that picture had been published in the United States, Depardieu would have been arrested as a child molester, and the photographer, reporter, and editor would have been out of a job.

If you don't think it could happen, consider the case of Toni Marie Angeli, who was choked, beaten, and arrested on November 2, 1995 at a photographic laboratory in Cambridge, Massachusetts, for taking "pornographic" pictures of her son. The pictures actually contained nothing of a sexual nature, and she had taken

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them for a class in photography at Harvard.

Meanwhile, in the France that once sheltered Khomeini, Moslem girls are prohibited from wearing head scarfs to school. And in the Iran that Khomeini fathered, girls and women can still be harassed on the streets for letting one hair of their head show. The same Iran that condemned Salman Rushdie to death for writing a fantasy that by some Moslem interpretations defames the Prophet, yet by the Western literary tradition represents freedom of the press.

The United States, being a nation of immigrants, as one of its most loved and hated presidents (Franklin Roosevelt) remarked, contains people who would defend Toni Angeli, and others who would defend the police who choked her. It contains people who would defend Khomeini and Salman Rushdie.

Decency, sex, politics, and religion are very hard to define or to separate. If there was a national consensus on what these things were, the Exon Law might not be a problem. But the United States has always been a collection of disparate communities, cultures, and traditions. That is why the Founders tried to keep the federal government out of these issues entirely.

The present Congress chose to forget that, and apparently never knew or cared that the Internet is not a US phenomenon, extending as it does to more than 100 countries throughout the world.

Who Are They Protecting?

Only about 3% of the current Internet population is children at all (*http://www.mids.org/ids3/*). The backers of this law claim they are trying to make the Internet safe for children to get on it. But filtering software is already available, as are access providers that provide carefully prepared subsets of online materials for children.

As for child pornography, there is very little of it in the first place, most of it is not on the Internet, and there are plenty of laws already in place to handle it.

SOME TRADITIONAL MEDIA BARONS MAY WELL BE THINKING THAT IT IS A GOOD THING TO HANDICAP THE INTERNET AND BRING IT DOWN TO TRADITIONAL MEDIA LEVELS, THUS MAKING IT EASIER FOR THEM TO COMPETE IN THIS NEW FRONTIER. IF SO, THEY GOT MORE THAN THEY WANTED, AND THEY WILL BE BITTEN BY THEIR OWN CREATURE.

Some examples of filtering packages are Cyber Patrol (*http://www.microsys.com/cybers*), Surf Watch (*http://www.surfwatch.com*), and Net Nanny (*http://www.netnanny.com/netnanny/*). I haven't tried any of these, so you'll have to form your own opinions as to their methods and effectiveness. It's a safe bet that none of them can keep a clever child from rolling a local copy of TELNET or, for that matter, from getting somebody to buy a copy of *Hustler* at the corner store, but they all provide at least some degree of filtering.

Internet filtering mechanisms are not perfect. But you don't board up all the windows in your house because your child might see a dog exon on the sidewalk. Congress shouldn't attempt to shut down the Internet as we know it because a child might encounter something "indecent" on it.

What this law will really do is hinder the development of the Internet as the astonishingly useful resource it is for children and adults alike, stunt the commercial advantage of the US in a field where it currently leads the world, and inflict costly damage on one of the cornerstones of the US political system.

The Internet And The Traditional Press

In these times when it's increasingly common for radio, television, and print media to publish part or all of their materials online, any members of the media who think the Exon Law will not affect them are in for a surprise. Words that are perfectly acceptable in a medical textbook could land you in jail if they are distributed on the Internet.

The press is often irresponsible, hasty,

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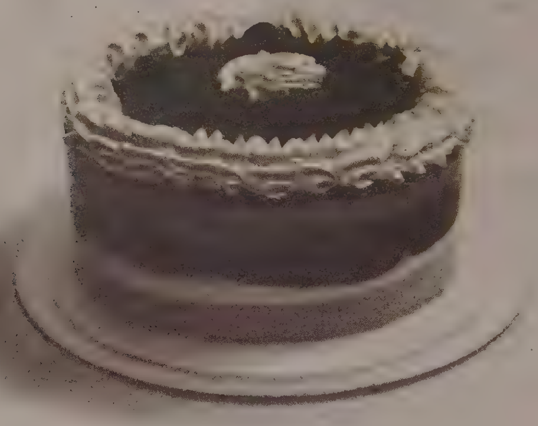

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short-sighted, selective, opinionated, outright bigoted, or just plain wrong. Apparently, some members of the press have a death wish, as the *Time Magazine* Cyberporn scare of 1995 made clear. The magazine's infamous July 3, 1995 story, which was based on incorrect arithmetic and apparently fraudulent research, helped drum up the current legislation. For more information, see *http://www.zilker.net/swg/time.html*.

But Congress has demonstrated with the Exon Law that even a bad press is better than a legislature that attempts to censor it.

Some traditional media barons may well be thinking that it is a good thing to handicap the Internet and bring it down to traditional media levels, thus making it easier for them to compete in this new frontier. If so, they got more than they wanted, and they will be bitten by their own creature.

> **THOSE WHO VIEW THE INTERNET AS AN ELECTRONIC FRONTIER AND HAVE CALLED FOR IT TO BE "CIVILIZED" HAVE GOTTEN EXACTLY WHAT THEY ASKED FOR: THE VERY SAME LAW THAT WAS USED TO "CLEAN UP" THE OLD WEST, WORDED IN SUCH A VAGUE MANNER THAT ITS APPLICATION WILL BE AT THE DISCRETION OF EVERY FEDERAL MARSHAL IN THE LAND.**

The Historical Precedent

Somebody said that Sen. Exon is a barbarian, and he took offense at that. Well, I think that was a poor choice of words. Barbarians historically were unsettled tribal people who were motivated in their attacks on civilized nations by straightforward personal motives: plunder, land, power. They had little to lose because they had little history behind them.

Sen. Exon, the members of Congress who voted for the Exon Law, and the president who signed it are actually following up a fine old American tradition. Here's a sample:

1692 Salem Witch Trials.

1798 Alien and Sedition Acts; President Jefferson refuses to enforce them.

1864 Early photography used for pornography mailed to troops.

1865 Congress outlaws sending any "obscene book, pamphlet, picture, print, or other publication of vulgar and indecent character" through the US mail.

1873–1932? Comstock Law outlaws using the US mail to send any "obscene, lewd, or lascivious book, pamphlet, picture, paper, print, or other publication of an indecent character...."

1919–1933 Prohibition.

continued on page 248

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ONLINE SERVICES • BY BILL GRAM-REEFER

Taking Care Of Business

Two New Offerings From AT&T and MCI Provide Easy-To-Use, One-Stop Information Shopping

Businesspeople should have a wealth of online resources available to them in 1996. Whether it's stock quotes, personalized news feeds, or specific industry updates and insider news, the drive is on to provide potential users with easy-to-use, one-stop information shopping.

The AT&T Business Network and networkMCI Business are two new examples. Given their parentage, it's no wonder that these new information services also have competitive pricing plans that dovetail neatly with the telephone service each provides.

> **In many ways, AT&T Business Network makes the Internet a part of its own infrastructure, not something foreign or "out there." Throughout the service there are hundreds of links already built in, allowing members just to click on the icon.**

AT&T Business Network

The AT&T Business Network is delivered via its Interchange Network, recently purchased from Ziff-Davis. The Interchange Network is a publishing platform that provides integrated links to AT&T services and content from resident publishers, together with easy access to a wide variety of other Internet-based resources, whether or not they are specifically located within AT&T's service. The AT&T Business Network software package for Windows 3.1 or higher provides point-and-click accessibility throughout the service, with simple menus, and point-and-click navigation within an integrated graphical user interface.

The major areas of the AT&T Business Network include News, Industry Watch, At the Office, Shop Talk, Fringe Benefits, Company Library Internet, and a Network Focus. Members can access the searchable databases and unique content in each section. The service then provides document links to related stories and discussions on the World Wide Web.

Information providers include Dow Jones, CNN Interactive, Reuter Business News, PR and Business Wire, and others. Breaking stories appear in the News section; other news can be found in appropriate industry or topic sections. Members can access daily and archived news reports and resources from a variety of leading information publishers, download the transcripts for the Nightly Business Report, check out the weather in Maine, or track favorite stocks with PC Quote.

Members can also create their own personalized electronic clipping service for tracking topics of interest, using the Network to automatically find and retrieve information on a regular basis. If you want to follow a specific industry, the Industry Watch section features in-depth information packages for nineteen industries: Automotive, Banking & Finance, Computers and Electronics, Defense and Aerospace, Energy, Environment, Food & Agriculture, Forest Products, Government and Legal, Health and Pharmaceutical, Industrial Resources, Insurance, Manufacturing, Media and Entertainment, Retail, Telecommunications, Transportation, and Travel & Hospitality. Stock quotes on any publicly held company are available with a twenty minute delay.

Where Industry Watch tracks your business, At the Office keeps tabs on your profession, presenting information along typical professional areas including Finance, Management and Administration, Operations, and Sales and Marketing. Here you'll find help on such topics as structuring employee benefits and research on tax laws. Hands-on tutorials and related reference materials are available here from TRW, Kiplinger Letters, INSO Business Almanac, *Entrepreneur Magazine* and others.

The Shop Talk area is the place to find any number of interactive discussion groups on business topics, ranging from setting up 401Ks to finding startup capital for your new business venture. Fringe Benefits provides an extensive collection of information and tools for professional development, self-improvement, time management, and personal finance. Since all work and no play makes Bill a dull boy, there's also info on recreational and leisure activities. Here, you'll find Weissmann Travel Reports, automobile reviews, crossword puzzles, This Week in Business from TV Host, and more.

The Company Library hosts a vast digital resource library of reference and archived materials from Dow Jones, TRW, Information Access

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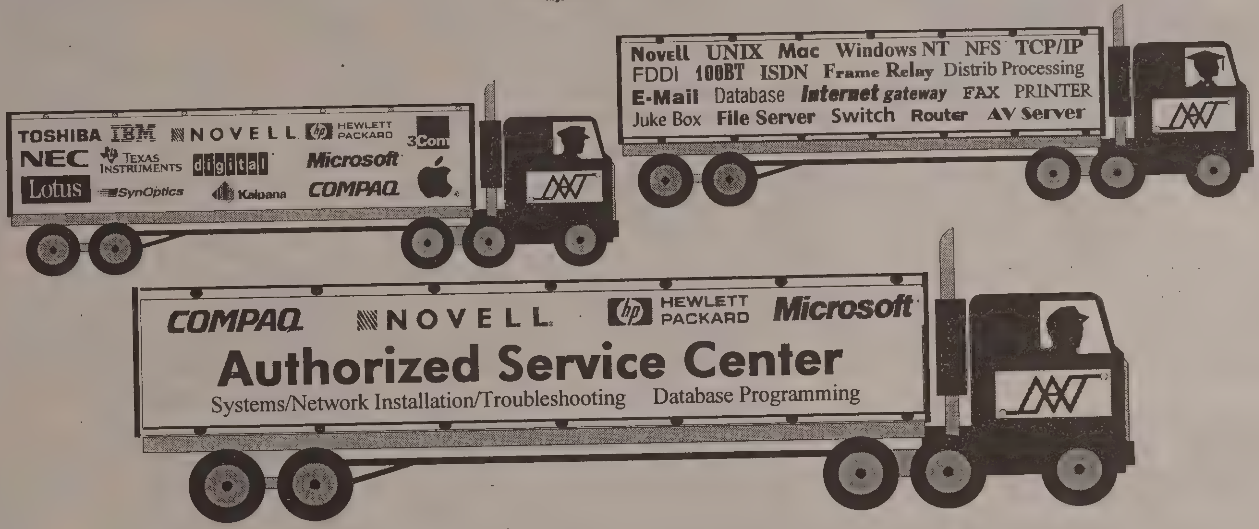
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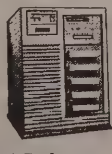

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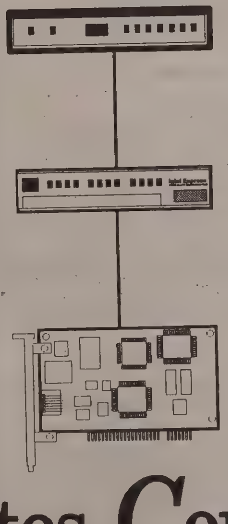

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(including PROMT), BNA HR Resource Center, INSO Business Almanac, and others. The Internet section includes info on how to use and take advantage of the Internet for your business including how to conduct business on the net, using the net for research, and links to some of the best business-related sites on the Web.

In many ways, AT&T Business Network makes the Internet a part of its own infrastructure, not something foreign or "out there." Throughout the service there are hundreds of links already built in, allowing members just to click on the icon. This step automatically launches Netscape's Navigator or some other Web browser that logs onto the site selected. Finally, The Network Focus area helps you personalize your online office and get the most out of the Network with usage tips, bios of the editors, and feedback.

AT&T Business Network is $40 per month including ten hours of online time, while connect charges beyond the ten hours are $2.95 per hour. The monthly fee includes access to the Internet and World Wide Web, Netscape's Navigator, and electronic mail.

People interested in signing up for the AT&T Business Network can call 1-800-660-2299, or download the client number and certificate number from the AT&T Interchange Web site at *http://www.ichange.com*.

networkMCI Business

MCI also offers a new service combined with an integrated, multi-function software package for Windows users. In addition to business and news content, networkMCI Business features an integrated application for email, faxing, and paging. In addition to the the information services available through this network, it provides advanced individual and group communications capabilities including data conferences among multiple users; online scheduling of audio, data, or video conferences; and easy access to the Internet. networkMCI Business also offers an optional desktop videoconferencing component.

infoMCI is the content angle to this service; it employs a sophisticated search agent that monitors thousands of content providers and then, based on subscribers' individual needs, delivers information automatically to their PC. infoMCI also delivers breaking news during the day, with the ability to have news delivered to the user's mailbox or transmitted to the subscriber's alphanumeric pager. Users can create up to twenty customized daily news feeds from twen-

networkMCI Business provides data conferences among multiple users; online scheduling of audio, data, or video conferences; and easy access to the Internet.

continued on page 250

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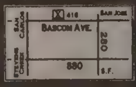

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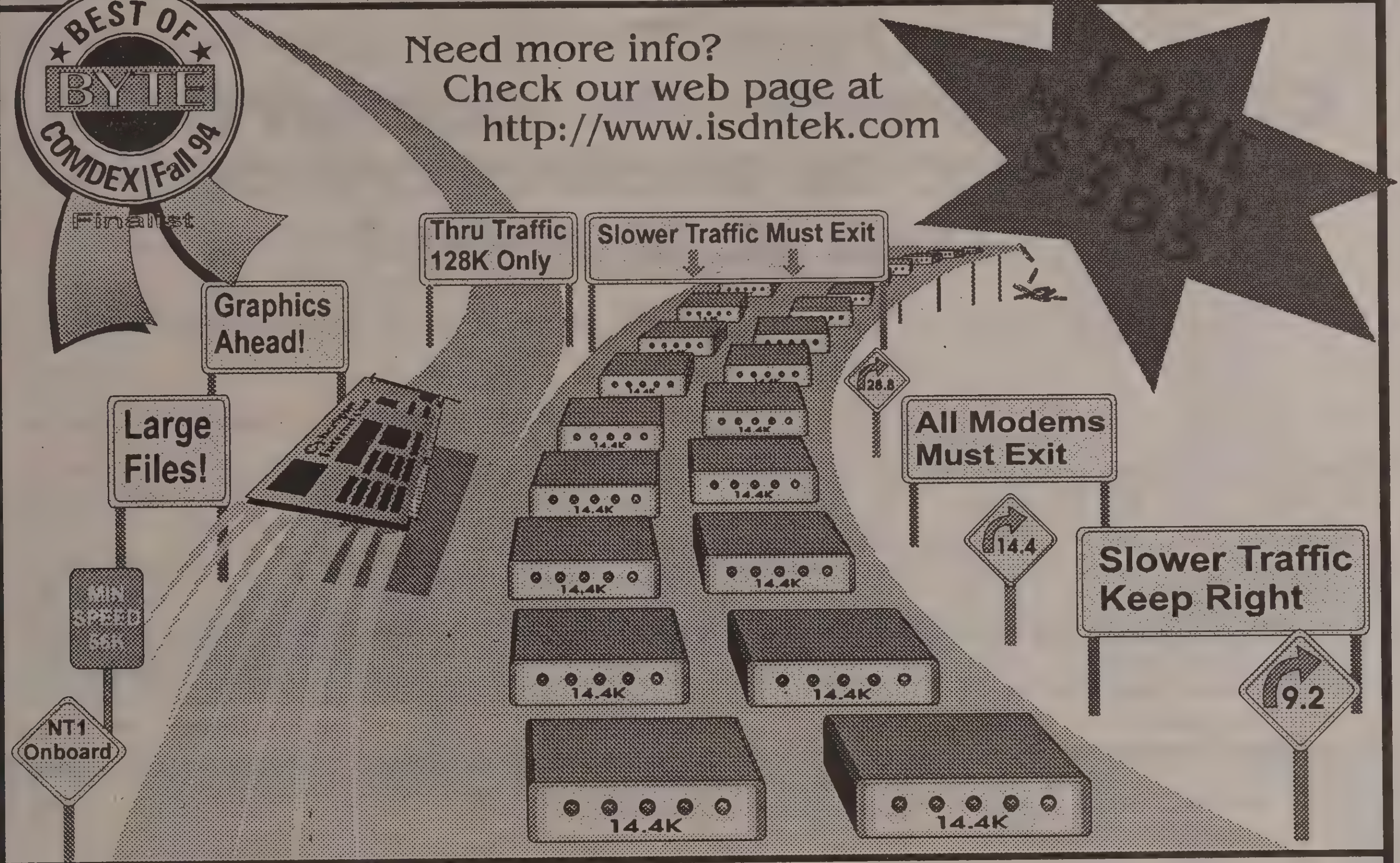
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BY PROFESSOR DONNA L. HOFFMAN

Cyberspace To Congress: The Net Is Mainstream—And It Votes!

Congressional Censorship Zeal Out Of Touch With Online Americans

You would think from the way that Congress is rushing to censor "indecency" on the Internet that cyberspace is a virtual den of iniquity and pornographic debasement. In the interests of promoting a bit more sanity in the halls of Congress, allow me to offer a few facts about the real nature of the "cyberporn" threat and about the character of the fast-growing community of Americans online.

First, let's be clear that what we're really talking about here—pornography—actually constitutes an infinitesimally small percentage of all online information. Indeed, Marty Rimm's ill-fated study of pornography on the "Information Superhighway" revealed that less than one-half of 1% of all images on the Internet were likely to consist of porn.

But never mind that somewhat inconvenient fact. Congress, in its infinitely debatable wisdom, has chosen to "save" America's children not by finally fixing our broken school systems—that, after all, would be hard and complex work—but by attempting instead to shield families from "indecency" (a sure vote-getter).

But guess what? It turns out that the majority of online users are not lonely, sex-deprived (or depraved) single males, but families! That's right, 42% of those on the Web are married, and another 9% report living with a partner, while only 41% are single. And 35% of Web-using households contain children.

What's more, according to the latest GVU/Hermes survey of Web users, 29% of Web users globally are female (the percentage of female users rises to 33% in the United States), 40% are thirty-six years old or older, almost a third of the respondents make less than $30,000 a year, and nearly half make less than $50,000 a year.

Indeed, the best research available indicates that cyberspace is increasingly going mainstream. Aside from the strong family orientation of Internet users—and the increasing prevalence of women—ever more middle-class and working-class people are joining the ranks of the "wired." Occupationally, more students, more people in sales and service work, more retired people, and more people in a more diverse variety of occupations (e.g. day laborers, craftspeople, homemakers, and others) are online every day, as are people reporting smaller annual household incomes (especially under $30,000).

As for the political persuasion of Internet users, the facts are rather startling. Despite the image of cyberspace as some stomping ground of the liberal elite, the fact of the matter is that there are significantly more Republicans and Independents online than Democrats. And while online users are nearly indistinguishable from people not online in terms of political party affiliation and who they voted for in the 1992 presidential election and the 1994 House elections, *online users are much more likely to vote* than people not online. Consider the following statistics from the Times Mirror 1995 "Technology in the American Household" study:

Party Identification and Voting Behavior

Party	Online Users	Not Online
Democrat	25%	29%
Independent	43%	40%
Republican	32%	31%

1992 Presidential Vote

Candidate	Online Users	Not Online
Bush	37%	38%
Clinton	44%	45%
Perot	18%	17%

1994 House Vote

Party	Online Users	Not Online
Democrat	43%	44%
Republican	55%	54%
Other	2%	2%

Ever more middle-class and working-class people are joining the ranks of the "wired."

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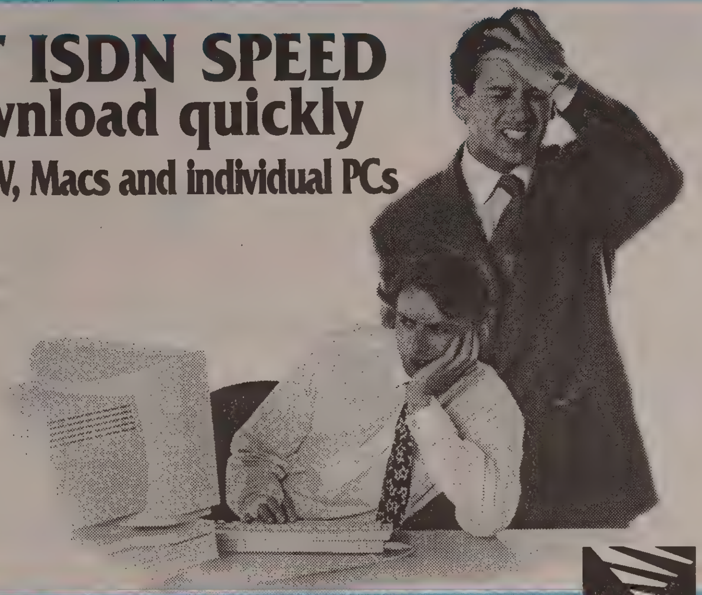

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Percent Who Voted in 1994

Age	Online Users	Not Online
18–29	32%	15%
30–49	58%	46%
50–64	80%	58%
65+	*	61%

* *too few cases to estimate reliably*

Source: Times Mirror Center for the People and the Press (now the Pew Research Center) "Technology in the American Household" 1995 study.

> **Congress, in its infinitely debatable wisdom, has chosen to "save" America's children not by finally fixing our broken school systems that, after all, would be hard and complex work but by attempting instead to shield families from "indecency" (a sure vote-getter).**

Oh yes, and one other little tidbit for Congress to consider: The majority of online users *oppose* current efforts to censor content on the Internet.

Given these figures, one has to wonder if the Republican Congress is shooting itself in the foot—alienating precisely the constituency whose support it will need to win the White House in 1996—by voting for a censorship bill that will, in any event, probably be overturned by the courts, according to virtually all constitutional scholars.

Congress take heed: The citizens of cyberspace represent a politically diverse and demographically varied voting population. Attempt to censor them only at your peril. ■

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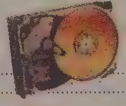

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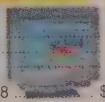

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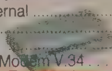

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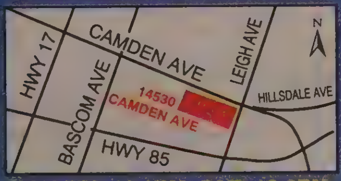

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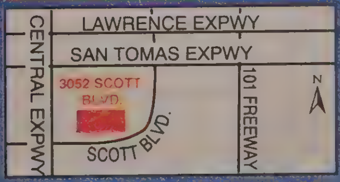

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BY KEVIN M. SAVETZ

The MBONE

Multimedia Broadcasting For Everyone?

In its short history, the Internet has seen more than its share of revolutions. First came the revolution in global communications with email and Usenet. After that there was the revolution in information sharing with FTP and Gopher. In the past few years, the World Wide Web has revolutionized the presentation of information. Governments, magazines, television networks, businesses, and any number of other organizations are turning to the Web as a new means of getting to their audience.

But the most significant revolution of all might well be the one merely around the corner. With the development of something called the multimedia backbone, or MBONE, the Internet suddenly becomes a hotbed of real-time multimedia communications. In essence, it becomes an interactive boardroom, classroom, television, cinema, videogame, and edutainment provider, the kind only dreamed of in the hype about the information superhighway.

The MBONE will eventually make it possible for all of us to start our own Internet-based TV show, if we wish, without so much as an FCC license or a transmitter. Or teach an online classroom with students from ten different states. Or participate in an important videoconference with researchers from around the globe.

On the Internet, as in other aspects of life, new technologies are first available to a core group of inventors and experimenters. If it's good enough or interesting enough or worthwhile enough, word gets out. Other folks begin to hear the wonders of the new technology; they want to try it out, they find out what they need, then they spend whatever time and money is necessary to join in. Slowly, the technology gains wider and broader acceptance, with more and more people taking part, until at last it becomes so common that it's practically a household word.

Take, for example, electronic mail. Or the World Wide Web. Or the waffle iron.

Over the past few years, the MBONE has been making its way onto the Internet slowly and experimentally. But its speed of adoption may soon increase exponentially, because even those of us who today rely on home computers and mere modems will soon have access to the technologies necessary to bring it into our homes.

Today, we "regular Internet users" are at the cusp of a new multimedia revolution. Those of us pushing the limits of a 14.4Kbps connection can already use some cool new multimedia tools. In the coming months, true multimedia will become more commonplace for "regular users" as our bandwidth limitations decrease and as hackers continue to improve compression methods for stuffing more information down that thin 14.4Kbps link.

> **Even for those who have the hardware to do multicasting today, there's another huge hurdle preventing the MBONE from taking over the Internet: Bandwidth.**

What Is The MBONE?

The Internet has traditionally been used to send information to one person (or computer) at a time. The information transmitted has a specific destination, as in an email message that reaches a specific (single) person. A request for a Web page is transmitted to a single host, and the host sends back the requested information to the single recipient. Although computers can handle hundreds (or thousands, or millions) of these requests every second, the information being moved around is still one-to-one: one computer is sending the information, and only one computer is receiving it.

This seems like a perfectly fine arrangement until you consider what happens when you want to send information simultaneously to more than one person. Let's use an email message as an example, one to which you've attached a graphics file. If you send that message to your friend in England, you'll chew up a certain amount of bandwidth.

Now, as any seasoned Internaut knows, you can address an email message to two, three, or twenty people at the same time. If you send this file to all twenty, you create twenty times as much Internet traffic. So if a band like R.E.M. wanted to transmit a live concert across the Internet to 150,000 of their closest friends, well, you can easily imagine how quickly the net would clog up.

The next generation of groundbreaking tools on the Internet will be IP multicast or MBONE programs. These tools change the rules of the road: they allow packets of information to be "broadcast" to anyone who is "listening" rather than to a specific individual or computer. These

continued on page 250

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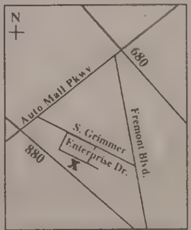

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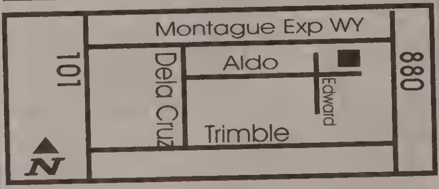

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CPUs & SIMMs MEMORY

INTEL PENTIUM CPUs

Pentium - 166MHz	$678
Pentium - 150MHz	$468
Pentium - 133MHz	$368
Pentium - 120MHz	$288
Pentium - 100MHz	$228
Pentium - 90MHz	$218
Heatsink for Pentium CPU	$218

72 PIN MEMORY

4MB	1x32/36	60NS	CALL
8MB	2x32/36	60NS	CALL
16MB	4x32/36	60NS	CALL
32MB	8x32/36	60NS	CALL

72 PIN (EDO) MEMORY

4MB	(EDO) 1x32	60NS	CALL
8MB	(EDO) 2x32	60NS	CALL
16MB	(EDO) 4x32	60NS	CALL
32MB	(ED0) 8x32	60NS	CALL

SUOND CARDs & NETWORKs & CONTROLLER CARDs

SOUND CARD

CREATIVE LABS, INC.

Sound Blaster 16 PNP (OEM)	$78
Sound Blaster AWE 32 (OEM)	$118
Sound Blaster 32 Value IDE PNP (Retail Box)	$148
Sound Blaster AWE 32 PNP (Retail Box)	$228
Phone Blaster w/ Spks (Retail Box)	$178

CONTROLLERS

ADAPTEC

2940 PCI SCSI-2 w/ SCSI Cable	$228
2940 UW PCI SCSI-2 w/ Wide Cable	$268
3940 Dual Channel PCI	$388
3940W Dual Channel Wide	$448

NETWORKS

3 COM

3C509 Etherlink III TB/ Combo	$75/95
3C509 Etherlink III PCI TB/ Combo	$100/128
3C16170 Link Builder 12/24 Ports Hub	$468/828
Novell Netware 4.1 10/25 User	$978/1288
Novell Netware 4.1 50/100/250 User	$1598/1828/2598

UNINTERRUPTABLE POWER SUPPLIES & SURGE SUPPRESSORS

OPTI UPS POWER PRODUCT BY VIEWSONIC

280E	280 AV. 175 Watts	$128
420E	420E AV. 252 Watts	$178
650E	650E Av. 410 Watts	$248

CD-ROM & SOUND CARDS CONTROLLER CARDS

CD-ROM DRIVES

Toshiba 5402 4X SPEED E-IDE
150ms/ 600KB/ sec.256K Buffer Multi-Spin / Multi-Speed
$98

Toshiba 3701B 6.7X SPEED SCSHI
120ms/ 1000KB / sec.256K Buffer
$248

ALPS 544C 4 DISC CD CHANGER
- Quad (4) Speed
- On The Fly Switching
- Fast ATAPI Interface

$288

NEC 4X SPEED 7DISC CDs CHANGER
$358

Creative Labs Hec 6X SPEED E-IDE CD-ROM **$128**

DIAMOND Multimedia 8X SPEED E-IDE CD-ROM w/ Controllers **$298**

MULTIMEDIA KITS
Turtle Beach 8 Speed Multimedia Kit **$348** MODEL 8010

DIAMOND Multimedia
8 Speed Multimedia Kit **$478** MODEL 8000

CASE & POWER SUPPLY

Mini Tower + 230W (UL)	$34
Compac Medium Tower + 230W (UL)	$39
Ultra Medium Tower + 230W (UL)	$48

CD-ROM & SOUND CARD CONTROLLER CARD

COLORADO

* 350MB Internal Tape Backup System **$118** DJ-35D

* 800MB Internal Tape Backup System **$168** T-1000

HEWLETT PACKARD

2.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE DRIVE **$678**
Average. 50 second File Search
183 KB/s Transfer Rate uses 60 & 90 meter Cartridge

4.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE DRIVE **$778**
Average. 50 second File Search
366 KB/s Transfer Rate Compliant with all DDs Dat Drives

PRINTERS

HEWLETT PACKARD

Desk Jet 855C Color Ink Jet
7PPM B/W 3PPM Color **$498**

Desk Jet 600C/660C Color Ink Jet	$278/368
Desk Jet 1600C / 1600CM	$1398/1988
Laser Jet 4V / 4MV	$1898/2698
Laser Jet 4+ / 4M+	$1398/1868
Laser Jet 5P / 5MP	$828/978
Laser Jet 5SI / 5SIMX	$2797/3698

EPSON

STYLUS II Color Printer **$448**

OKIDATA

OKIDATA OL-600E LASER Printer **$398**
6PPM Speed 600 DPI Class
1MB exp. to 16MB

OKIDATA OL-400e LASER Printer **$348**
4PPM Speed 300 DPI 512 RAM

SCANNER

HEWLETT PACKARD

Scan Jet 4C Flatbed Color Scanner
- 600 DPI Color / Gray Scale
- up to 2400 DPI Scan
- Corel Photo Paint For Windows

$898

SOFTWARES

Corel

CorelDRAW UPGRADE:
From Version 5 To 6
The Best In 32-Bit Graphics
$218 CD VERSION

Printhouse

Clipart, Fonts, Photos and Phrases-ect. **$28** CD VERSION

SIDEKICK 95

Schedules, Contracts, Expenses & to do's-All the Information **$48** CD VERSION

Microsoft

Automap Streets 4.0 Digital Streets Maps At Your Fingertip **$48** CD VERSION

INTIUT

Quicken Deluxe 5.0	$58
Quickbook 3.1 for WIN	$88
Quickbook PROF. for WIN	$178

ADOBE

PAGE MAKER 6.0 for WIN	$558

Microsoft

Microsoft Office PROF. for WIN '95	$288

(Only w/ System Purchase)

408 - 980 - 8325 Ext. 24,25,26.29, & 31

Web Page Listings

COMPUTER PRODUCTS & SERVICES

Action Systems, Inc. *http://www.actioninc.com/* Action Systems offers LAN, WAN, system and Internet integration as well as consulting. [Exp. #150.]

Adaptec *http://www.adaptec.com/* Information on Adaptec IOware product solutions and technologies, service, and support. Career opportunities also featured. [Exp. #150.]

Aspen Computer, Inc. *http://www.visdesign.com/aspen/* Portable computer specialists, laptops, notebooks. [Exp. #148.]

Asteroids *http://www.anomalies.com/* Asteroid PRO software predicts asteroid occultations. This site also hosts the IOTA asteroid occultation information pages. [Exp. #148.]

Battery Technology *http://www.batterytech.com/* The leading manufacturer of portable computer accessories. [Exp. #148.]

Caligari Corp. *http://www.caligari.com/* Download free trial version of trueSpace2, the leading 3-D graphics and animation software for Windows. Also, download Fountain, a VRML 3-D browsing and authoring tool. [Exp. #148.]

CD-Media At Zion Graphics *http://www.cd-media.com/* Marketing, training, and design firm developing multimedia and HTML applications to promote businesses through 3.5" disks, CD-ROM, and the Internet. [Exp. #149.]

CLC Research *http://www.clcr.com/memory/* Upgrade your laptop today. Best price for your Apple, Compaq, and Toshiba laptop memory. [Exp. #148.]

ColorExpert, Inc. *http://www.colorexpert.com/* This new site for ColorExpert, a CD-ROM publisher, seeks to share information that creators and producers need for success in digital publishing. [Exp. #149.]

CompuAll Internet Services *http://www.compuall.com/* Internet services, accounting systems, hardware services, network services. [Exp. #149.]

CompuShare, Etc. *http://www.wp.com/cshare/* Specializing in computer hardware and accessories for IBM compatibles and the Commodore computer. [Exp. #148.]

Computer Literacy Bookshops, Inc. *http://www.clbooks.com/* Bookstore specializing in computer books since 1983; mainstream to hard-to-find. Thousands of original, objective book reviews in online database. [Exp. #149.]

Computer Recycler *http://coolsville.com/recycler/* We buy, sell, and trade new and used Macintoshes and PCs. Best prices. [Exp. #148.]

connect.amp.com *http://connect.amp.com/* connect.amp.com is a customer-driven, multilingual electronic catalog of AMP products. [Exp. #150.]

Consultex *http://www.consultex.com/* Electronic publishing firm specializing in desktop publishing, Web development, and graphic design (415/322-3999). [Exp. #148.]

Costar, Inc. *http://www.costar-rep.com/* Costar is a professional electronics components manufacturers' representative serving Northern California whose mission is customer service. [Exp. #148.]

Craftwork Solutions, Inc. *http://www.craftwork.com/* Info on Craftwork Solutions, Inc., and Craftwork's Linus with hyperlinks. [Exp. #148.]

David Wong Consulting *http://www.crl.com/~dwong/* This is an experimental Web consulting service. My goal is to pinpoint difficulties users have with computers. [Exp. #150.]

DBasics Software Company *http://pacificnet.net/~dbasics/* Clipper programming with Programmer's Yellow Pages, shareware, public domain source code, and 5000 icons. [Exp. #148.]

Digital Photo Restoration, Retouching, & Scanning *http://www.wp.com/PhotoRestoration/* Specializing in digital photo restoration, retouching, colorizing, image manipulation & scanning. We do it right! [Exp. #148.]

DijiDezign *http://www.dijidezign.com/* Portfolio and information on DijiDezign and its services: Digital Illustration, writing, photography, art direction, web page design, and graphics services. [Exp. #150.]

Distributed Processing Technology *http://www.dpt.com/* Supplier of high-performance SCSI and RAID solutions. The Web site offers extensive information on the company, DPT principals, and its products. [Exp. #150.]

EBS MicroSystems *http://www.shasta.com/ebs/* [Exp. #148.]

Free Art Website *http://www.mccannas.com/* Stop by and download some free icons, texture, and type. Browse through Photoshop and Corel tips, too! [Exp. #149.]

Global Computer Express *http://net.discnt.com/glob~al/* Wholesale to the public. Systems, multimedia kits, SIMMs, CPUs, and more. Check out "Meet the wacky staff" page. [Exp. #150.]

Glyphics *http://www.glyphics.com/glyphics/* A digital content design firm specializing in broadcast, film, and interactive productions. [Exp. #148.]

Great Fax Cover Sheet Co. *http://www.greatfax.com/greatfax/* Free shareware of Fax-a-Laugh for Windows and other unique products. [Exp. #149.]

Input Automation *http://www.inputauto.com/barcode/* Bar code specialist. Supplier of bar code scanners, printers, portables, and tracking software. [Exp. #148.]

Insulectro *http://www.insulectro.com/* Learn about as well as order from this printed circuit and electromaterials supplier. [Exp. #148.]

JR Engraving *http://www.mousetrap.com/* Cool mouse pads. [Exp. #148.]

Laser-Tone International *http://www.laser-tone.com/usa/* A S. Florida-based company offering Internet users an easy way to save money on laser printer cartridge recharges. Free US delivery. [Exp. #148.]

Leapfrog Lab *http://www.leapfroglab.com/* Leapfrog Labs' online catalog offers high-quality products from Everex and other vendors at guaranteed low prices. [Exp. #150.]

Mac Intelligent *http://www.firstedition.com/~firstedition/* Mac-based computer systems consultants, international sales and service, multimedia presentations, and trade show exhibits. [Exp. #150.]

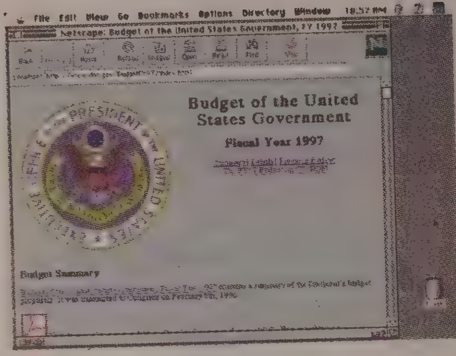
Make Your Own Screen Saver *http://www.earthlink.net/~pcs* Make screen savers from your favorite pictures or bitmap files. Download shareware for free. [Exp. #149.]

Maxis *http://www.maxis.com/* Maxis site has been live but in the works since spring, and is being officially unveiled with new features and surprises. [Exp. #148.]

Multimedia Reality, Inc. *http://listinglink.com/mmhome.htm* [Exp. #149.]

NexGen *http://www.nexgen.com/* Learn about the NX586, today's fastest Windows 95 processor. [Exp. #150.]

Ocean Information Systems, Inc. *http://www.*



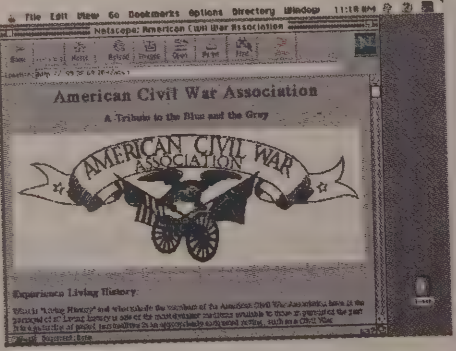
Netscape: Budget of the United States Government, FY 1997

Budget of the United States Government

Fiscal Year 1997

Budget Summary

http://www. goc.gov/BudgetFY97/index.html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Netscape: American Civil War Association

American Civil War Association

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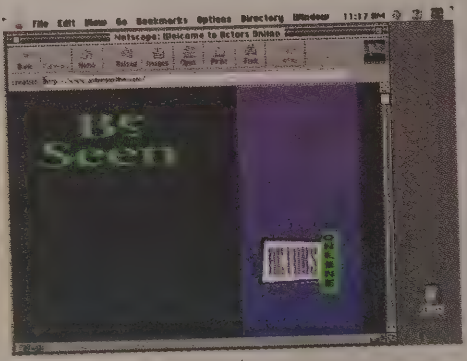
http://199.88. 68.204/acwa



Netscape: Welcome to Actors Online

http://www. actorsonline.com/

WE'VE REVAMPED THIS SECTION

with new and improved categories to better reflect the wide variety of Web page listings that keep pouring in. Here are the categories in order: Computer Products/Services, Web/Internet Services, Services/Products For Sale, Financial/Real Estate Services, Legal Services, Employment/Education, Organizations/Publications, Odds & Ends, Personal Home Pages, Arts, Entertainment/Leisure, Adult Entertainment.

P5-75

- Intel® 75MHz Pentium™ CPU
- **16MB RAM, 256K Triton** Chipset
- **540Mb** IDE HD w/PCI CTRL
- PCI Enhanced IDE Interface
- PCI Local Bus Graphic with 1MB
- Quad-Speed CD-ROM, 16-Bit Sound Card & Speakers
- 3.5" Diskette Drive
- 15".28dpi SVGA Monitor
- Mid Tower Case w/230W
- Keyboard, MS Mouse
- 4 PCI & 3ISA Slots
- Windows™ 95

P5-75 ....$1539

P5-120

- Intel® 120MHz Pentium™ CPU
- **16MB RAM, 256K Triton** Chipset
- **540Mb** IDE HD w/PCI CTRL
- PCI Enhanced IDE Interface
- PCI Local Bus Graphic with 1MB
- Quad-Speed CD-ROM, 16-Bit Sound Card & Speakers
- 3.5" Diskette Drive
- 15".28dpi SVGA Monitor
- Mid Tower Case w/230W
- Keyboard, MS Mouse
- 4 PCI & 3ISA Slots
- Windows™ 95

P5-120 ....$1699

P5-133

- Intel® 133MHz Pentium™ CPU
- **16MB RAM, 256K Triton** Chipset
- **540Mb** IDE HD w/PCI CTRL
- PCI Enhanced IDE Interface
- PCI Local Bus Graphic with 1MB
- Quad-Speed CD-ROM, 16-Bit Sound Card & Speakers
- 3.5" Diskette Drive
- 15".28dpi SVGA Monitor
- Mid Tower Case w/230W
- Keyboard, MS Mouse
- 4 PCI & 3ISA Slots
- Windows™ 95

P5-133 ....$1779

Networking

SMC Ethercard Plus EliteT 16/TP	$ Call
3Com Etherink III 3C509 Combo card ...	$ 99
INTEL Ether Express 16/TP	$ 119
INTEL Ether Express Combo	$ 129
NE2000 Compt. sw config TP ...	$ 29
2-in-1 NE2000 compatible	$ 45
10Base-T Concentrator	
16 ports concentrator	$ 299
8 ports concentrator	$ 149
5 ports repeater (2BNC,2TC,1AUI) ..	$ 269
ISDN	
3COM	$BEST
DIGIBOARD	$CALL
Novell Netware	
Netware 3.12 5users	$ 549
Netware 3.12 10users	$ 1199
Netware 3.12 25users	$ 1799
PEER-to-PEER Networking	
Novell DOS 7 w/Personal Netware .	$59
Lantastic AI 6.0 Dos/Windows	$79
NEW Pocket Lan Adapter w/Printer Port	$ 109
Network Scheduler 3	
5users Dos/Win	$ 49

BNC, Terminators, Coaxial or Twisted Pair Cable & Other network components

Toshiba 4x IDE	$ 85
ACER 6x CD-ROM	$ 199
Mitsumi 6x CD-ROM	$ 139
Diamond 8x CD-ROM Bundle	$ 379
Multimedia 4x Bundle	$ 219
Sound Blaster 16 Vibra	$ 79
Hi-Fi 70watt Speakers	$ 35
Hi-Fi 80watt Speakers	$ 45
Quickshot Sound Mate III	$ 15

Hard Disk

Conner 540MB IDE	$ 179
Conner 850MB IDE	$ 189
Conner 1.0GB IDE	$ 219
Quantum 1.2GB IDE	$ 239
Conner 1.6GB IDE	$ 269
Western Digital 1.6GB IDE	$ 299
Conner 1GB SCSI	$ 259
Quantum 2GB SCSI	$ 649
Seagate 4.0GBW SCSI	$ 1219

Video Adapter

VLB/PCI Trident w/1MB	$ 59
Orchid Kelvin PCI w/1MB	$ 99
Diamond Stealth 64 PCI w/1MB	$ 105
ATI Win Turbo w/2MB VRAM	$ 255
ATI Pro Turbo w/2MB VRAM	$ 279

Monitor

GVC SVGA .28dpi NI 14"	$ 219
GVC SVGA .28dpi NI 15"	$ 329
GVC SVGA .28dpi NI 17"	$ 609
Hitachi CM1587 15"	$ 389
Mag DX1795 17"	$ 699
Viewsonic 17gs	$ 719
Viewsonic 17ps	$ 859
14" Monochrome Monitor	$ 79

Case with Power supply

Mini Tower with 200W UL	$ 37
Baby At Desktop with 230W	$ 49
Mid Tower with 230W	$ 59
Full Tower with 250W	$ 79
Black Full Tower with 250W	$ 109

Monthly Specials

- Intel® 120MHz Pentium™ CPU
- **16MB RAM, 256K Triton** Chipset
- **540Mb** IDE HD w/PCI CTRL
- PCI Enhanced IDE Interface
- PCI Local Bus Graphic with 1MB
- Quad-Speed CD-ROM, 16-Bit Sound Card & Speakers
- 3.5" Diskette Drive
- 15".28dpi SVGA Monitor
- Mid Tower Case w/230W
- Keyboard, MS Mouse
- 4 PCI & 3ISA Slots
- Windows™ 95

..P5-100 ....$1629

- AMD®486x4/100 CPU
- **16MB RAM, 256K Cache**
- **540Mb** IDE HD w/VLB Ctrl
- Vesa Local Bus Graphic with 1MB
- Quad-Speed CD-ROM, 16-Bit Sound Card & Speakers
- 3.5" Diskette Drive
- 15".28dpi NI SVGA Monitor
- Mini Tower Case w/230W
- Keyboard, MS Mouse
- 3 Vesa & 4 ISA Slots
- Windows™ 95

486DX4/100
$1419

HD/FD Controller

16bit IDE Ctrl w/ IO	$ 17
IDE VESA HD/FD Ctrl w/ IO	$ 25
SCSI *adaptec* 16bit 1522 card	$ 89
SCSI *adaptec* 1545 card only	$ 179
SCSI *adaptec* 2740 PCI w/disk	$ 199
SCSI *adaptec* 3985 RAid PCI	$ 449

Mouse & MISC

MS-Mouse Compatible	$ 9
Microsoft Serial Mouse II	$ 25
Microsoft Bus Mouse II	$ 59

Modem/Fax Modem

14.4/14.4 faxmodem w/voice	$ 59
U.S.Robotics 28.8 v.34 Int/Ext	$199/$219

Miscellaneous

Intel Endeavor Motherboard	$ 239
Intel Atlantis Motherboard	$ 369
PCI Triton 256k pipeline	$ 189
VLB 486 - 256k Cache Board	$ 99
Teac 1.44MB Floppy	$ 30
Teac 1.2MB Floppy	$ 42
Dual 1.2MB & 1.44MB Floppy	$ 89
Microsoft Natural Keyboard	$ 65
Mitsumi 104 WIN 95	$ 25
Keytronic 104 WIN 95	$ 25
Chicony 5911WIN 95	$ 17
28.8K Internal Faxmodem	$ 129
Logitech 3 button Mouse	$ 25
MGP Card	$ 15
Cartridge QIC-Wide 3010	$ 27
Cartridge Travan 400-800MB	$ 25
CPU & SIMM	$ CALL

Services

- **LAN / WAN Networking**
- **Internet Installation**
- **E-Mail / GroupWare**
- **Software Install / Config**
- **PC Upgrades**
- **Service Contract**
  - ***Network Maintenance***
  - ***PC Maintenance***

CNE - Certified Netware Engineer on staff

Tape Backup

HP 2GB Int. Dat w/bracket	$719
HP 4GB Int. Dat w/bracket	$859
Conner 850 TapeStor	$229
Colorado-HP T1000 400/800	$179
Cartridges 4mm 90m	$ 11

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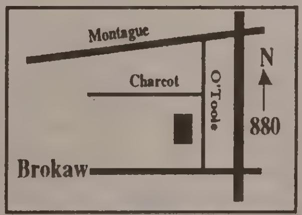

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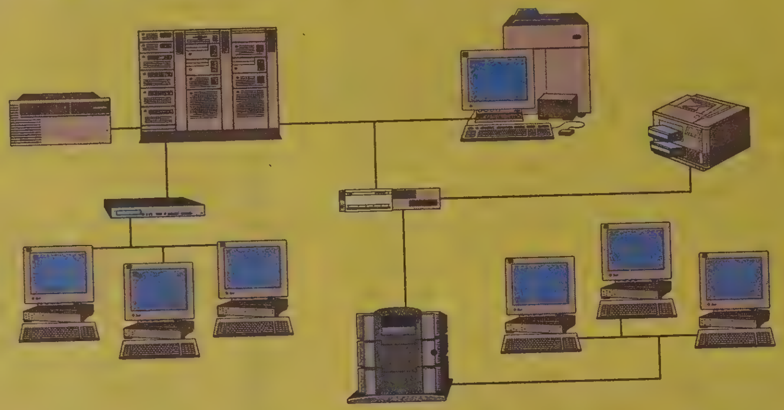

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- Pentium Pro, 150MHz Workstations and File Servers
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- On-Site Maintenance Service Contracts.
- 10Mbps or 100Mbps Network Hardware.
- Twisted Pair or Coax Cable Installation.

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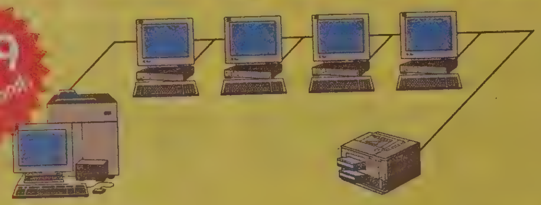
only $299 per month



Installation and set-up extra.

Server & Network Parts:
Pentium 100, 16MB RAM, 1.0GB Hard Drive, 1.44\MB Floppy, CD-ROM, Full Tower, Keyboard, Mouse, 14" Monitor, Network Card, Surge Protector, 8-ports Hub, Windows NT for 5 users and HP LaserJet 5P.

4 Workstations-Each Includes:
i486DX2/66MHz, 8MB RAM, 635MB Hard Drive, 1.44MB Floppy, Mini-Tower, Keyboard, Mouse, 14" Color Monitor, Network Card, Windows 95

HIGH PERFORMANCE SYSTEM CONFIGURATIONS

P6 Power!

ULTRAStation-P6
Unleash the Power of Your 32-Bit Operating System with the Pentium Pro 150Mhz and Ultra-Wide SCSI!
- Intel Pentium Pro (P6) 150Mhz Processor
- PCI Motherboard with Intel Orion Chipset
- 32MB RAM, 256K L2 Cache
- Seagate 2.1GB Fast/Wide SCSI-2 Hard Drive
- Adaptec 2940UW Fast ULTRA-Wide SCSI (40Mbit/sec)
- Matrox MGA Millenium 3D Video 2MB WRAM Video
- NEC XP 17" Professional Series Hi-Res Monitor
- Toshiba 6X-Speed SCSI CD-ROM
- SoundBlaster 16 Sound Card
- Yamaha YST-M10 Hi-Fi Multimedia Speakers
- GT-300 Easy-Access Full Tower Case
- 104-Key Win95 Keyboard and Microsoft Mouse
- Microsoft Windows95

P6-150MHz $6425 $203/month

Developer's DREAMachine Alpha 275
Alpha AXP - The Industry's Fastest Microprocessor For Demanding Windows NT Software Development
- DEC Alpha AXP 21064 275Mhz RISC Processor
- Digital AlphaPC64 PCI Motherboard
- 32MB RAM, 2MB L2 Cache
- Seagate 2.1GB Fast SCSI-2 Hard Drive
- PCI Fast SCSI-2 HD Controller
- #9 64-Bit 2MB VRAM Video
- Sony 17SF 17" .25dp Monitor
- Toshiba 6X-Speed SCSI CD-ROM
- GT-300 Easy Access Full Tower Case
- 101-Keytronic Keyboard and Microsoft Mouse
- Microsoft Windows NT 3.51 Workstation

Alpha 275MHz........$6395 $202/month

TwinSTATION 133
The Perfect SMP Workstation to Run Your Multithreaded WindowsNT Applications
- Dual (2) Intel Pentium 133Mhz Processors
- PCI Motherboard 512K L2 Cache
- 32MB RAM (expandable to 256MB)
- Seagate 2.1GB Fast SCSI-2 Hard Drive
- Adaptec 2940 Fast SCSI-2 Controller
- Diamond PCI Stealth64 2MB VRAM Video
- Sony 15SF 15" Trinitron Hi-Res Monitor
- Toshiba 6X-Speed SCSI CD-ROM
- GT-300 Easy Access Full Tower Case
- 101-Keytronic Keyboard and Microsoft Mouse
- Microsoft Windows NT 3.51 Workstation

Dual P133 ....$4745 $150/month

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Symmetrical MultiProcessor Servers

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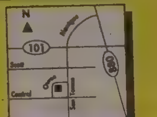

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Web Page Listings *continued...*

ocean-usa.com/ocean/ The leading manufacturer of server and PC systems, motherboards, 8X CD-ROM drives, cases, and power supplies. [Exp. #150.]

PCS4LESS *http://www.pcs4less.com/* This new mail order company offers you PC software at low, low prices. Let us show you how you can get these bargains. [Exp. #150.]

Qualtos *http://virtualguide.com/Qualtos/* New company offers discount computers, software,. Internet access, and tech support. [Exp. #148.]

Semaphor Corp. *http://www.semaphorecorp.com/* An interactive Web site and database for browsing any address in the United States. [Exp. #149.]

SemiWeb *http://www.semiweb.com/* An expo and resource center for the semiconductor industry. Keeps users on the leading edge. [Exp. #148.]

Shopping Planet *http://www.shoppingplanet.com/* Win free gifts! Purchase online, getting the best prices on computers, software, etc. [Exp. #148.]

Silicon Data *http://www.silicondata.com/sdi/silicondata.html* [Exp. #148.]

Software Outlet *http://www.softwareoutlet.com/* A mail order company specializing in low-cost software. Call 1-800-230-SOFT for a free catalog. [Exp. #148.]

Supercom *http://www.t1net.com/Supercom/* Product information to be available soon. Look for weekly special. Listing of latest drivers for immediate downloading. [Exp. #150.]

Synergy Productions *http://www.synprod.com/* The best in Web design, 3-D animation, trade show presentations, demo disk, and CD-ROM productions. [Exp. #149.]

Systematic Solutions, Inc. *http://www.systematicsol.com/* Selling integrated software for wholesale-distributors and service companies. (Touchstone 2000, Solomon, and Great Plains) [Exp. #150.]

TechExpo *http://www.techexpo.com/* Calendar of science and engineering conferences, directory of hi-tech companies and technical societies, as well as a technical information center. [Exp. #148.]

Tellan Software *http://www.tellan.com/* Credit authorization and electronic sales software for the Macintosh and Windows. [Exp. #148.]

Touch Voice Corp. *http://www.deltanet.com/touchvoice/* A computer telephony company offering computer-based businesses telephone systems, multiline voice mail, fax-on-demand, and interactive voice-response products. [Exp. #150.]

Universal CD-ROM *http://www.bigmall.com/* We sell multimedia CD-ROMs and develop home pages. [Exp. #149.]

W Lewis Company *http://www.wavenet.com/~wlc99* Computer products, parts, systems, CDs, leasing, and hitech security system. [Exp. #148.]

WEB/INTERNET SERVICES

Advertisement Network Services, Inc. *http://www.ansi.com/* ANS, Inc., in San Jose, is a complete Internet solutions provider specializing in Windows NT Web server systems, mail server systems, and Web site design and hosting services. [Exp. #148.]

Beach.Net *http://www.beachnet.com/* Provides full net connectivity from dial-up to 56K to T-1 leased lines as well as a full range of Web services. [Exp. #150.]

BusinessWare *http://www.ni.net/bizware.com/* Marketing services for the Internet and beyond. Call for brochure (714)248-5689. [Exp. #148.]

Chinese Big-5 *http://exo.com/~datung* Many useful and interesting Chinese WWW links. Also, Chinese Web page consultant. [Exp. #148.]

Classified Ads In The Bay Area *http://www.hooked.net/users/gcco/* Advertise your car in Automobile section, look at commercial services available in the Bay Area. [Exp. #148.]

Coastal *http://www.thecoast.com/* Reseller of Sun, SGI, Adobe, etc. Total Internet resource, including infrastructure and Web design, development, marketing, firewall, and secure commerce. [Exp. #148.]

CTWebOpp *http://www.webcom.com/webopp.* A variety of Web services, including how to get online quickly, easily, cheaply, and profitably. [Exp. #150.]

Data Concepts *http://www.dataconcepts.com/* Complete Internet advertising. Increase your business for pennies a day. [Exp. #148.]

Digital Web Designs *http://www.digitalweb.com/* Professionally designed Web sites for business and individuals. CGI, Java, and more at affordable rates. [Exp. #148.]

Electronic Pen, Inc. *http://www.epen.com/* A leading provider of interactive marketing, advertising, and design for the emerging info superhighway. [Exp. #148.]

Galaxy-Net Telecommunications *http://galaxy-net.com/* Specializes in creating pay-per-visit Web sites and building traffic to those sites. [Exp. #148.]

HLC Internet *http://www.2hlc.net/* Where to go to get connected to the net, nationwide. [Exp. #148.]

Internet Literacy Consultants *http://www.matisse.net* We help people understand and use the Internet and related technologies to accomplish their goals, via seminars and consulting. [Exp. #148.]

Joe's CyberPost *http://www.joes.com/* Put your own Instant Home Page on the Web. Shop with Joe's trading partners for the ultimate in quality, convenience, and value. [Exp. #148.]

K&A Consulting *http://www.kaconsult.com/* Monthly tips and strategies for marketing and selling on the Internet. Links to additional resources, companies, and organizations that may be worth exploring. [Exp. #148.]

MediaTrix *http://www.catalog.com/mtrix/* Home pages created for the economically challenged by the creatively gifted. [Exp. #148.]

Net/Biz Consulting *http://www.masterm.com/netbiz.html* The people to see if you want or need help getting connected, a Web site or page, and more. [Exp. #148.]

Novak International *http://www.novakint.com/sites* Provides low-cost, basic home page and your own location on the Web. [Exp. #150.]

Online Design By Scott E. *http://www.upbeat.com/online/* Free commercial Web page professionally designed and maintained for your business. No per-hit charges. [Exp. #148.]

P-Net *http://www.p-net.com/* P-Net offers complete design, service, and support for your Web pages, including HTML coding, CGI scripting, and scanning. [Exp. #150.]

Quiet Mountain *http://quietmountain.com/* Low-cost Web support, catalogs for crafts people, free pages for artists and poets. [Exp. #148.]

Ro Productions *http://lyb.com/ro-productions* Professional quality A to Z Web development. Very reasonable prices. [Exp. #150.]

Secured Services *http://www.ina.com/* Implementation of Secured Virtual Ordering Netscape Servers; complete TCP/IP storefronts via Cybercash Secured Payment System. [Exp. #149.]

SRMC Spider Web *http://www.srmc.com/* A premier Internet Service Provider to businesses throughout Northern California. [Exp. #150.]

Tenth Muse Interactive *http://www.tenthmuse.com/* Complete professional Web site design and hosting for medium to large businesses. [Exp. #150.]

Trailnet *http://www.adpages.com/510ebay1/trailnet.htm* Email address book, home page design, online trail walks. [Exp. #150.]

Value Net Internetwork Services *http://www.value.net/* Full-service Bay Area ISP. All 28.8 access, unlimited access. [Exp. #148.]

VISCom *http://users.aol.com/mtbarber/viscom.htm* Web pages, consulting, forms programming, and hosting—we do it all. [Exp. #149.]

Web Diner, Inc. *http://www.webdiner.com/* A professional Web site design team. We also run a forum on America Online (keyword: diner). [Exp. #149.]

Webville *http://www.webville.com/* Full-service Web sites you create and manage using only a Web browser. [Exp. #148.]

Wish You Were There *http://www.wishco.com/wish/* Graphical Web page design; digital photo manipulation, enhancement, and restoration; dye-sub and video output. [Exp. #148.]

World Wide Business Center *http://www.egraphics.com/egraphics/* Web pages starting as low as $95 a home page. [Exp. #150.]

SERVICES & PRODUCTS FOR SALE

123Link *http://www.123link.com/* Get a free listing in the first and largest global products and services directory. [Exp. #150.]

Algae—CellTech *http://dcn.davis.ca.us/~kwa/celltech/* Wild super food to rejuvenate your body and spirit at cellular level. [Exp. #148.]

America's Discount Realty *http://www.rereferrals.com* A unique cash rebate referral system, where you choose your agent and we save you money. [Exp. #148.]

American Pacific Tea And Spice *http://www.icw.com/teashop/* Providing you with the best teas and spices from around the world at bargain prices. [Exp. #148.]

Another World Comics & Books *http://www.liberty.com/home/anotherworld.index.html* Shop online. Comic books for all ages. Starter packages. Old, new, collector's items. [Exp. #149.]

April's Cell Tech Page *http://www.calypso.com/april* A great location to visit to learn more about health and wealth opportunities with Super Blue Green Algae. [Exp. #149.]

ATK Engines *http://www.atk-engines.com/atk/* Factory remanufactured engines for American, Japanese, and European cars and trucks. Free delivery in the USA. [Exp. #148.]

Auto-Net *http://we.got.net/autonet/* We are a full-color WWW forum for buying and selling used vehicles in Northern California and beyond. Classic and exotic car section. [Exp. #149.]

Auto/Brokernet Online *http://www.autobroker.net/* Buy or sell classic, exotic, and race vehicles. Free limited access. [Exp. #150.]

Automotive Concours *http://www.asrinc.com/ autoconcours/* Automotive classified specializing in full -page photo ads. Includes dealers, services, parts, wanted, clubs, and events. [Exp. #150.]

Azule Of Saratoga, Florist *http://www.joes.com/azule/* Order direct via the net. We ship by wire worldwide. [Exp. #148.]

Berger Metal Fabrication *http://www.bmf.com* From design through final product assembly. High-quality precision sheet metal fabricator and turn-key assembler. [Exp. #150.]

BODY DOUBLES *http://www2.primenet.com/%7Edoubles/* Experience the beauty of youth with Body Doubles' aloe vera and glycolic products. Ask about our complimentary gift: Private Collection Fragrance—Savoir Faire. Please reference WARF4828 when responding. [Exp. #148.]

Broadcast Exchange, Inc. *http://www.broadcastexchange.com/* Online marketplace for new and pre-owned broadcast video equipment. Authorized Sony Professional reseller. [Exp. #150.]

CDWorld *http://cdworld.*

continued on page 264

6X Creative IDE CD-ROM
$109
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US Robotics 28.8 Fax/Modem
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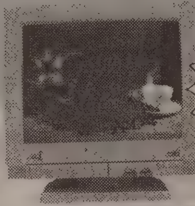

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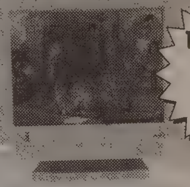
- 1280x1024 max resolution supports VGA, 8514/A, super VGA and XGA
- Tilt and swivel base allows comfortable viewing from all angles



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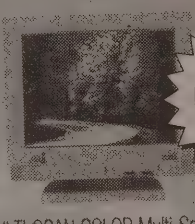

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- Tilt and swivel base allows comfortable viewing from all angles

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Adaptec SCSI II 2940	$188
Enhanced IDE w I/O VLB (Vision 16550)	$20
Promise 2300 Plus Enhanced IDE VLB	$42

SOUND CARDS

Sound Blaster 16	$75
Sound Blaster AWE 32 (OEM)	$125
IDE 16 Bit Sound Card SP 301 ESS 1688F	$40

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4X IDE Toshiba 5402B	$89
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Diamond Stealth 64 w/2MB VRAM 3240 PCI	$249
Diamond Edge 3D w/1MB DRAM 2120XL	$225
Orchid Kelvin 64 w/1MB VLB or PCI	$79
Orchid Fahrenheit 64 w/1MB PCI	$85
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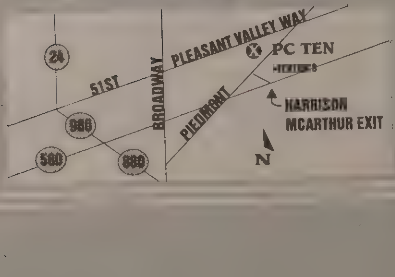

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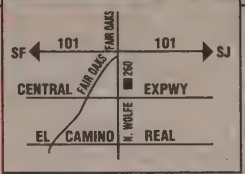

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- -1.44MB Floppy Drive
- -1.6 GB IDE Hard Drive
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- -Diamond Stealth 64 w/2MB
- -Mag 15" SVGA 1280 NI .28mm
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- -Mouse, Keyboard, I/O, Mini-Tower Case

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- -Mouse, Keyboard, I/O, Tower Case

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- -256K Cache
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- -1 GB Hard Disk
- -PCI SVGA Accelerator w/1 MB
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- -Quad Speed Internal CD-ROM
- -Sound Blaster 16 Sound Card
- -Mouse, Keyboard, Tower Case, I/O, Speakers

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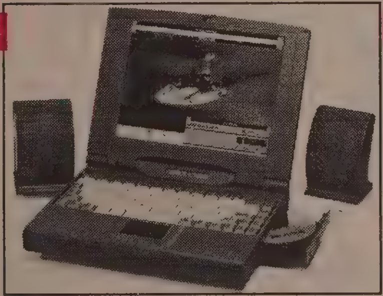

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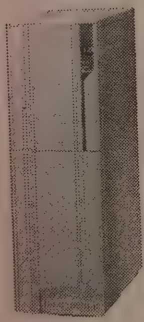
The Thoroughbred Workstations



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System Pricing

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TYPE OF SYSTEM	BUS Structure	BareBone: Motherboard Mini-Tower Case IDE w/2SPG* 1.44 FDD 101 K/B Serial Mouse	BareBone + 4MB Con 850 14" Mono SVGA VGA 256K Card*	BareBone + 8 MB RAM WD 850 MB IDE 14" SVGA .39 SVGA 512K Card*	BareBone + 8 MB RAM Con 850 MB IDE 14" SVGA .28 SVGA 1MB Card*	BareBone + 8 MB RAM WD 1.2GB IDE 14" SVGA .28 NI SVGA 1MB Card*	BareBone + 8 MB RAM WD 1.2GB IDE 15" SVGA .28 NI SVGA 1MB Card*	BareBone + 16 MB RAM WD 1.2 MB SCSI 17" .28 SVGA SVGA 2MB Card*
DualPentium100 256k	PCI	$1,172					$1,940	$2,500
33	PCI	$70					$1,45	$2,04
ntel En ea or 120 Bur t	PCI	$704				$1, 42	$1,415	$1,97
ntel En ea or 100 256	PCI	$ 2				$1,22	$1,5	$1,917
Triton i 0 256k	PCI	$577				$1,1	$1,24	
Triton i 5 256k	PCI	$45			$977	$1,070	$1,14	
	VB	$7		$57	$9	$95		
6D 120 256k	VB	$290		$ 1	$97			
6D 100 256k	VB	$294	$5	$44				

*PCI Systems include PCI IDE Cont W/Fast IO and S3C864 1MB PCI Graphic Card

*VLB Systems include VLB IDE Cont w/Fast IO and S3C805 1MB VLB Graphic Card

CPUs: A - AMD; C - Cyric; I - IBM; i - Intel; Nx - NexGen

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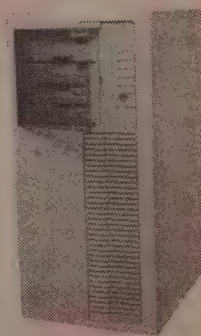
The Thoroughbred Servers



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* IO PORTS 4 SERIAL (16550) CARD K535-1	72
IO PORTS PRINTER CARD	10
IO PORTS RS232 CARD [SERIAL]	10

COOLING FANS

FAN FOR 486 CPU	7
FAN FOR PENTIUM 90 CPU	8
FAN TURBO (PC POWER COOLING) FOR CPUs	20
FAN FOR PENTIUM 60/66 CPU	10
FAN FOR CASES 3 125" SQUARE SECOND	9
* FAN FOR CASES 3 62" (PC POWER & COOLING)	40

CABLES

GENERAL CABLES	
CABLES FOR IDE HDD OR FLOPPY DRIVES	5
SWITCH BOX ABCD FOR VGA ONLY	14
SWITCH BOX ABCD FOR VGA AND KEYBOARDS	16
ADAPTER DB9 M/F TO DB25 M/F	4
POWER ADPATER 5 25" TO 3 5"	2
POWER Y ADAPTER FOR POWER SUPPLIES	2
SWITCH BOX PRINTER 2 1 AUTO	12
SWITCH BOX PRINTER 2 1 BIDIRECTIONL AUTO	27
SWITCH BOX PRINTER 4 1 AUTO	21
SWITCH BOX PRINTER 4 1 BIDIRCTNL AUTO	41
SWITCH BOX PRINTER 4 1 MANUAL ABCD DB25	9
SWITCH BOX PRINTER 2 1 MANUAL AB DB25	15
CABLE FOR FLOPPY DRIVES 5 CONNECTOR	4
CABLE FOR IDE DRIVES 3 CONNECTOR	3
EXTENSION CABLE FOR KEYBOARD	5
LOOPBACK TESTER DB25/DB9	6
EXTENSION CABLE FOR MONITORS 6' DB15 M-F	5
SERIAL CABLE RS232 DB25-F TO DB25-M	5
SERIAL MODEM CABLE RS232 DB9F TO DB25M	5
CABLE CROSS RS232 DB25 M TO IDC10 M/B	6
SCSI CABLES	
SCSI CONVERTER IDC 68 PIN TO 50 PIN	16
SCSI INTERNAL CABLE RIBBON 3 CONNECTORS	7
SCSI EXT CABLE II TO (CENTRONIC) SCSI-I	18
SCSI EXTERNAL CABLE SCSI II TO SCSI II	20
SCSI INTERNAL RIBBON CABLE 5 CONNECTOR	8
SCSI INTERNAL CABLE 6 CONNECTOR	9
SCSI INTERNAL RIBBON CABLE 7 CONNECTOR	13
SCSI EXTRNL CABLE CENTRONIC TO CENTRONIC	10
SCSI INTERNAL CABLE FOR EXT DR BOX	16
* SCSI-2 INTERNAL CABLE FOR EXT BOX	48
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* RO LIVINGSTON V 35 ROUTER CABLE	88
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* RO LIVINGSTON PM-2ER 20PORT W/ROUTER	3296
* RO LIVINGSTON PM-2ER 30PORT W/ROUTER	3663
* RO LIVINGSTON PORTMASTER-25 25PORT,1E	2813
* RO LIVINGSTON PORTMASTER-2E,10PORT,1P1E	2181
* RO LIVINGSTON PORTMASTER-2E 20PORT 1P1E	2953
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PENTIUM 120MHZ CPU	286
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* PENTIUM 150 MHZ CPU - INTEL	481
* PENTIUM 166 MHZ CPU INTEL	853
PENTIUM 60 MHZ CPU	101
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* CONNER PYTHON 4324RP DAT 4-8GB INT	846
* CONNER PYTHON CP4324RT DAT 2-4 GB IN	744
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* EXABYTE EXB4200 2.0GB DAT INTERNAL	765
* EXABYTE EXB4200CI 2-4 GB DAT INTERNAL	909
* EXABYTE EXB4200CE 4-8 GB DAT EXTERNAL	949
* EXABYTE EXB8205 2.5-5GB DAT INTERNAL	1334
* EXABYTE EXB8505XL 10GB DAT EXTERNAL	2172
* EXABYTE EXB8505XL 10GB DAT INTERNAL	1949
* EXABYTE EXB-8700 14GB 8MM DAT EXTERNAL	2031
HP	
HP C1533A DAT 4MM 4-8 GB W/O BRACKET	1000
* HP C1534A DAT 4MM 2GB W/O BRACKET	689
* HP C1536A DAT 4MM 4GB W/O BRACKET	810
* HP SURESTORE DAT 6000E 8GB EXTERNAL	1265
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* CONNER 4GB IDE TAPE DRIVE TSM4000R INT	355
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MOUNTING BRACKET (BLACK) FOR FLOPPY DRIV	10
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HARD DRIVES	HARD DRIVES	HARD DRIVES	Motherboards/CPU'S	Monitors	CD-ROMS
Conner 540 540MB $158	WD 21600 1.6GB IDE $273	Seagate 32550N 2.0GB Barracuda $675	MB 486 VLB Opti W/AMD dx4-120 CPU $159	Monitor 15" KFC .28 DPI, NI $284	Mitsumi 4x IDE Drive $75
WD 21200 1.2GB $215	Seagate ST51080N 1GB/SCSI $242	Toshiba 2.5" 340mb SCSI $159	CPU'S P133/120/100/90 $326/257/205/199	Monitor 17" 1280NI $540	Teac 6x 6x CD-ROM $141

ASA COMPONENTS CENTER

DISCOUNT PRICING - SPECIAL CONDITIONS LISTED BELOW TO APPLY

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• 1.08 GB IDE HDD SEAGATE ST 31220A	477
1.08 GB IDE HDD WESTERN DIGITAL 21000	215
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• 1.2 GB IDE HDD MAXTOR 71260A	246
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• 1.6 GB IDE HDD CONNER CFS1621A	267
• 1.6 GB IDE HDD MAXTOR 71626A	286
1.6 GB IDE HDD WESTERN DIGITAL MODE 4	282
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730 MB IDE HARD DRIVE WESTERN DIGITAL	230
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850MB IDE HARD DRIVE WESTERN DIGITAL	195
• 2.5" HDD 815MB IDE TOSHIBA MK1926FCV	391
• 2.5" HDD 514MB SCSI QUANTUM 20514DY-S	201
• 2.5" HDD 810 MB SCSI TOSHIBA MK2628FB	404

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1.06/8 GB SCSI HDD CONNER CFP106/80S	237
1.08 GB SCSI HDD QUANTUM FB1080S	255
1.06 GB SCSI HDD ST51080N 12.5MS SEAGATE	260
• 2.1 GB SCSI HARD DRIVE CONNER CFP2107S.	621
• 2.1 GB SCSI HARD DRIVE CONNER CFP2105S	742
• CONNER 2.1 GB WIDE SCSI HDD CFP2107E	690
• 2.1 GB SCSI HDD QUANTUM XP-32150S ATLAS	891
2.1GB SCSI HDD QUANTUM 32210CP-S CAPELLA	633
2.1GB SCSI HAWK ST32430 9MS SEAGATE	605
• 2.1GB SCSI HDD SEAGATE 32550W WIDE	810
2.5GB SCSI BARA ST3255ON 8MS SEAGATE	721
SEAGATE 3.1GB SCSI 43400N	1792
4.0GB SCSI HDD CFP4207S CONNER 7200/8.5	902
• 4.0GB SCSI HDD MICROPOLIS MIC3243	1098
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• 4.2 GB SCSI HDD QUANTUM QM34300SW WIDE	1196
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• 486 AIR 8EISA/3VLB DX4 MB 256K M/B	270
486 ASUS SP3 PCI/VLB IDE IO 256K M/B	134
486 UMC PCI/ISA IDE FAST IO M/B	104
486 ASUS SP3G PCI SCSI IDE IO M/B	235
486 MustangES PCI SIS 256K M/B	104
486 OPTI PCI VLB ISA OPTI M/B	115
486SLC-33 Mustang MOTHERBOARD W/CPU	52
486 MustangS DX2 3VLB 256K MB SIS	86
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• 586 CapricornNX NEXGEN 90 MHZ PCI	253

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• PENTIUM DUAL ASUS 75-133 MHz PCI/EISA MB	621
• PENTIUM DUAL ASUS 75-133 MHz PCI/ISA MB	345
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• PENT DUAL TYAN <=133,512K-SYNC,5EISA4PCI	581
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ESIMM 1MB 256X36	39
ESIMM 8MB 2X32 70 NS MEMORY	199
ESIMM 8MB 2X36 60 NS MEMORY	255
ESIMM 8MB 2X36 70 NS MEMORY	231
ESIMM 16MB 4X32 60 NS MEMORY	411
ESIMM 16MB 4X32 70 NS MEMORY	409
ESIMM 16MB 4X36 60 NS MEMORY	480
ESIMM 16MB 4X36 70 NS MEMORY	495
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• KINGSTON 4MB 70NS 30PIM SIMM MEMORY	174
• KINGSTON 32MB 8X36 60NS ESIMM MEMORY	1300
16MB 16X9 70NS SIMMS	468
SIMM 1MB 1X9 [3 CHIP] 60 NS MEMORY	41
SIMM 1MB 1X9 BP [3 CHIP] 70 NS MEMORY	29
SIMM 1MB 1X9 [3 CHIP] 70NS MAJOR MEMORY	40
SIMM 1MB 1X9 [9 CHIP] 70 NS	44
SIMM 256K	15
SIMM 4MB 4X9 MAJOR [3 CHIP] 60 NS MEMORY	123
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9"

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14"

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• 14" SVGA NI BLACK CASING MONITOR	270
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14" MONO VGA PAPERWHITE MONITOR	86
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• 3 COM 3C529 10 BASE T 30 PACK	5365
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• SMC ETHEREZ ETHERNET 10BT CARD BULK	91

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• HUB 3COM 3C16170 LB FMS-II 12 PORT	317
• HUB 3COM 3C16674 LB FMS-II 48 PORT PACK	2300
• HUB 3COM 3C16630 LB FMS-II MGMNT MOD	436
• HUB 3COM 3C15000D V3 WORKGROUP MGR	442
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• IOMEGA 100 MB ZIP DRIVE PAR/SCSI EXTERNL	207
• IOMEGA CARTRIDGE 100 MB ZIP SINGLE PACK	24
• SYQUEST 270MB SCSI REMOVABLE DRIVE	351
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• APC BACK-UP BK1200 UPS	397
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• APC SMART-UPS SU1000 UPS	484
• APC SMART-UPS SU1400 UPS	607
• APC SMART-UPS SU2200 UPS	1176
• APC SMART-UPS SU3000 UPS	1725
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• APC SMART-UPS SU700 UPS	390
• APC SMART-UPS V/S SUVS1000 UPS	437
• APC SMART-UPS V/S SUVS1400 UPS	569
• APC SMART-UPS V/S SUVS420 UPS	243
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#9 FX MOTION 771 PCI 2MB VRAM OEM	263
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#9 FX MOTION 771 PCI 4MB VRAM RETAIL	439
• #9 IMAGINE 128 PCI 8MB VRAM	1374
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• ATI WINBOOST MACH64 VLB 2MB OEM DRAM	173
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• ADAPTEC 2742 EISA SCSI CARD	301
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• ADAPTEC 2742AT EISA SCSI CARD	331
• ADAPTEC 2742ATK TWIN EISA SCSI KIT	359
• ADAPTEC 2742 WIDE EISA SCSI KIT	401
• ADAPTEC 2842 VLB SCSI CARD	178
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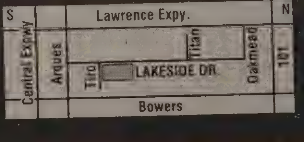

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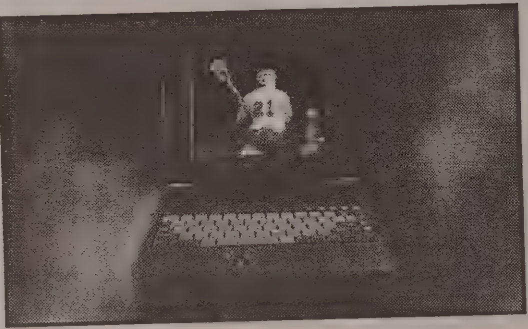

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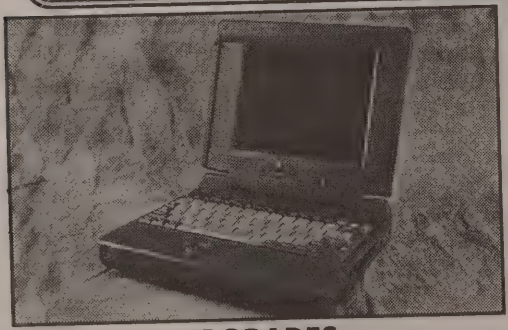

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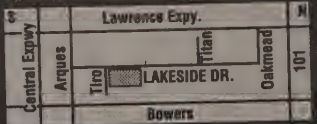

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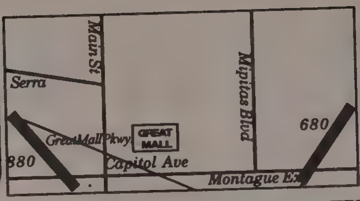

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Intel Pentium®	100	$1057
Intel Pentium®	90	$1053
Intel Pentium®	75	$ 964

UPGRADE OPTIONS:

Endeavor Pipeline 256K	Add $38
Endeavor Pipeline 512K	Add $145
Atlantis Pipeline 256K	Add $127
Atlantis Pipeline 512K	Add $135
EDO RAM	Add $10

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*486/256K PCI Motherboard
*486DX4-133 AMD CPU
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*Mitsumi 104 w/95 key-keyboard
*MGC 14" SVGA Non-Int Monitor
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*4XI CD-Rom
*Soundblaster Vibra 16 sound card
*Speakers
*Microsoft Encarta 96
*Microsoft Money
*Microsoft Works

486DX4-133(AMD) $1040

HARD DRIVES

◆CONNER	
540MB / 14MS (EIDE)	168
1.0 GB/14MS (EIDE)	208
1.2 GB/ 15ms (EIDE)	225
1.0 GB/10ms (SCSI)	250
◆MAXTOR	
850 mb/ 10ms (EIDE)	192
1.2GB /12ms (EIDE)	225
1.6 GB/ 12ms (EIDE)	262
◆QUANTUM	
850mb/14ms (EIDE)	188
1.0GB/10 ms(SCSI)	254
1.2 GB/11ms (EIDE	230
◆WESTERN DIGITAL	
850mb/10ms (EIDE)	193
1.0 GB/ 11ms (EIDE)	220
1.2GB/ 10ms(EIDE)	228
1.6 GB/ 10ms (EIDE)	280
◆SEAGATE 2.1GB/ 10.5 ms(EIDE)	380

MISCELLANEOUS

◆Microsoft mouse serial/bus	26/53
◆Logitech Mouseman serial/Bus (4000dpi)	27/48
◆COLORADO	
DJ-35C 350MB/DJ-501.4GB	115/215
T-1000 800 MB(Tape incl.)	166
Trakker 250MB/Trakker 700MB	225/310
◆Baby AT/Mini Tower case w/230W PS	40
◆Medium Tower case w/230W PS	60
◆Full Tower case w/250W PS	80
◆Floppy Drive 1.2/1.44/DUAL	40/35/90

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120MHz $2488
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-Intel Triton Chipset Mother Board
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-1.2GB HARD Disk Western Digital
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-256K Cache
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-Logitech Mouse
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100MHz $1958
120MHz $2038

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-Mid-Tower
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-NI Energy Saver
-101 Keyboard
-Sound Blaster 16
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PENTIUM® TRITON PCI MULTIMEDIA

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-256K Cache Memory
-8 MB Memory
-PCI M/B Intel Triton Chipset
-PCI Enhanced IDE Controller
-Hi Speed I/O 2 Serial/1 Parallel
-1.44 MB 3.5" FDD
-850 MB HD WD 10 ms
-PCI Super VGA w/1 MB
-14" SVGA Monitor, FLAT .28
-NI Energy Saver
-101 Keyboard
-Sound Blaster 16
-Toshiba 4X CD-ROM
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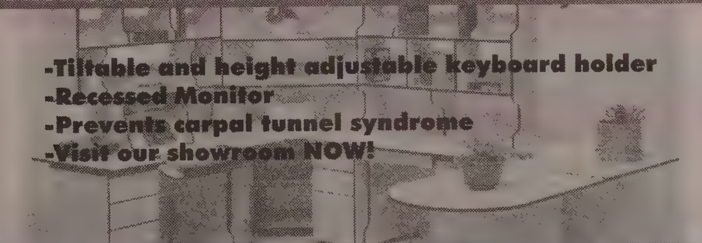

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4x9-70	119
4x9-80	118
4x9-60	122

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1x8-80 2 Chip	28
1x8-70 2 Chip	29
1x8-80/70 8 Chip	27
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512Kx36-70	85
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4x36-70/60	398/400
8x36-70 NEW	972

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DRAMS

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256x1-100	2.00
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64x4-80/100	3.00
1x4-80 DIPP	35
1MBx1-70	5.99
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256x4-80/70 Page, 20pin	7
256x4 Video Page 28pin TC524256Z-70	8.50
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1x4-80/70 Page 20pin ZIPP	32
1x4-80/70 Page 20pin DIPP	36

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32Kx8-20	$6.99
32Kx8-15/12	7.00
64x4-20	7.50
64x4-15	5.50
64x8-15/20	10.50
8Kx8-20	4.75
8Kx8-15	4.90
16Kx4-20	2.75
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128x8-20	26
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8087-1/2/3	89/69/59
287XL Intel Tube	49
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387SX-26/20/33	49
387SX-25 Cyrix	39
387SX-33 ULSI	34
387DX-20 Intel Tube	36
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KXP4420/4450/4451 1/2/3/4 MB	78/119/150/218
KXP4450 1 MB	88
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OL400 1/2 MB Board	$78/125
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PS 410 2/3/4 MB	$129/158/188
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Compaq Pagemarq 15 & 20 1/4/8	79/139/266
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• SIMMply RAM	159

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Dual Floppy 1.2/1.44	88
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Model		P/N	
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	2 MB	117081-002	125
	4 MB	117081-003	219
SLT 286	1/4 MB	110237-001	99/259
LTE 386S/20	2 MB	12125-001	129
	4 MB	121125-002	195
Contura Lite 20/25	2 MB	129769-001	125
	4 MB	129769-002	235
	8 MB	129769-003	395
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	EBD	167811-001	225
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Deskpro 386S (E. Board)			
	4 MB	11364-001	285
	4 MB	112534-001	189
Deskpro 386/33L, 486/33L, 50/25			
	2 MB	115144-001	145
	8 MB	116561-001	375
	32 MB	116568-001	1475
Deskpro 386/20e, 25e (E. Board)			
	4 MB	113645-001	285
Deskpro 386/20,20e,25e			
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Deskpro 286N, 386N, 386SX/20, 386/25M, 486/33M, 486S/25M, 486S/16M			
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	8 MB	128877-001	395
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Prolinea 4/33	2 MB	141682-001	125
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T3100	2 MB	135
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Prospeed 386	2/4 MB	189/475
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DELL 325N, NC	2 MB	179
DELL NL25, NL20	2 MB	179
Epson NBS3	1/4 MB	98/225
Everex Tempo LX	2 MB	135
HP 95LX	1/2 MB	159/279
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MAC PB 100	2/4/6 MB	89/179/239
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- 1.44MB Floppy Drive
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- Mouse w/ Pad
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Princeton Ultra 14" NI .28	$259
Princeton Ultra 15" NI 1280x1024 .28	$379
Princeton Ultra 17" 1280x1024 .28	$629
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SONY 17" 17SFII 1280x1024 .25	$859
SONY 20" GDM-SE .30	$1829
NEC	
NEC 14" XV14 .28 1024 70Hz	$339
NEC 15" XV/XE/XP	$459/556/629
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Nokia 447L/447X 17" Trintron .25	$679/979
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Nanao 17" F2-17 .28 1280/F2-17EX .26 1600	$915/$1015
Iiyama 17" VisionMaster .26	$729
Iiyama 17" VisionMaster Pro .25 Diamondtron	$825

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Cirrus Logic ISA w/1MB	$62
Trident 9440 VLB/PCI Graphic Accerator w/1MB	$72/72
Number 9 FX Motion 531 1MB/2MB PCI/VLB	$179/219
Number 9 FX Motion 771 2MB/4MB PCI/VLB	$289/429
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Orchid Fahrenheit 64 VLB,PCI 1MB/2MB DRAM	$155/195
Orchid Kelvin 64 VLB,PCI 1MB/2MB DRAM	$149/$189
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ATI WinTurbo 64 PCI,VLB 2/4MB VRAM	$269/429
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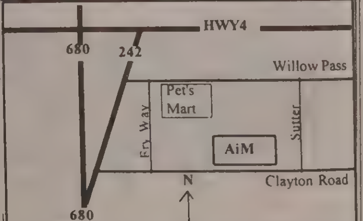

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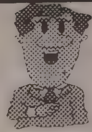

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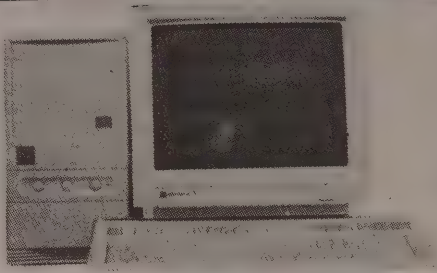

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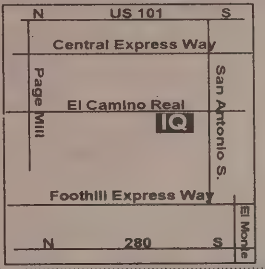

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"The analogy commonly made between the present transformation and that of the early nineteenth century remains only half complete: the catastrophe has been left out. For a fuller analogy would shake the spirit, not stir it, and give thoughtful people pause: What will happen to the dispossessed? What will the consequences be once our world too has been 'turned upside down'?"

—David Nobel,

TECH-NOLOGY

"What's relevant is that this techno-structure that we've created is destructive to both human societies and to natural environments."

—Kirkpatrick Sale

Progress, Technology, And Society According To Kirkpatrick Sale

By Michael Robin • Illustrations By Trina Baucom

If the reports are correct, our world is about to be "turned upside down" again. The emerging Digital Revolution is said to offer a myriad of changes for modern civilization—affecting how we learn, work, communicate with each other and with institutions, gain access to information, and even how we think. Perhaps not surprisingly, most of the attention focuses on potential benefits associated with new technologies. ◆ As the effects of the Digital Revolution are increasingly felt throughout society, computer technologies are beginning to be scrutinized and analyzed from more and more angles by more and more people. No longer is this analysis done primarily by "techies"—be they programmers, corporate MIS people, consultants, computer journalists, or even science fiction writers—talking to and about a comparatively small group of people. Nowadays, among the commentators exploring these issues is a growing array of philosophers and social critics who examine technology's impact on a wide range of social relationships. ◆ Kirkpatrick Sale, author and social commentator, has recently received much attention as a proponent of a neo-Luddite critique of technology and modern society. The author of several books, including *The Green Revolution, The Conquest of Paradise: Christopher Columbus and the Columbia Legacy*, and *Human Scale*, Sale writes for the *New York Times Review of Books, The Nation*, and *The New York Times Magazine*. He is also a board member of the E.F. Schumacher Society. ◆ In his latest book, *Rebels Against the Future—The Luddites and Their War on the Industrial Revolution*, Sale presents the history of the Luddites to remind us of conditions in a previous era of transition, and to help us understand threats posed by the present transformation, with the hope of drawing "lessons for the computer age." In retelling the story of the mythical Ned Ludd and his army of (real) followers, Sale examines not only the specific actions and motivations of the Luddites, but also the events occurring in the rest of England and Europe.

"Luddites" was the name given to weavers and spinners in the counties surrounding the legendary Sherwood Forest who, in the fifteen months between November 1811 and January 1813, attempted to stop the introduction of new weaving technologies. During that brief time, more than 1200 of the new framing machines were destroyed, along with several factories. Fighting erupted sporadically over the next year, but for the most part the Luddite movement had been defeated, and factories with the new machines spread across this region of England. ◆ The Luddites were not simply antitechnology. They were fighting to maintain their social and economic livelihood. Their thriving, decentralized cottage industries were threatened by the new industrial system. History shows that the Luddites' fears were well founded. Capital (and power) became concentrated in the factory and under control of factory owners; comparatively well paid craftsmen were replaced by fewer, unskilled men overseeing mostly women and children working long hours at low wages on the factory floor. Sale points out, for example, that in 1806 there were 5000 croppers and apprentices at work in Yorkshire. By 1817 only 763 were fully employed, and by the 1830s that number had shrunk to zero. "The real challenge of the Luddites," Sale explains in his book, "was not so much a physical one, against the machines and manufacturers, but a moral one, calling into question on grounds of justice and fairness the underlying assumptions of this political economy and the legitimacy of the principles of unrestrained profit and competition and innovation at its heart." ◆ In California, surrounded by the seemingly endless wave of visionary tools that will carry us into the new, improved world of the twenty-first century, it often seems difficult, but no less important, to maintain a broad perspective on the threats as well as the promises offered by technological change. To better understand Kirkpatrick Sale's view of progress and modern society, the relationships between technology and social communities, and the prospects for the future, I traveled to Cold Springs, New York, to meet with Sale where he lives and works—without a cellular phone, fax machine, computer, or dedicated line to the Information Superhighway.

FOR THE COMING MILLENNIUM

History is typically written by the victors, but you have written a sympathetic book about the Luddites, telling their story and seeking to draw lessons from their experience. Briefly, why should we look at them?

The Luddites were clearly not victors. That's the truest and most pointed thing you could say about them. And indeed, not only did no one write about them very much, they left almost no record of what they had done. All of what they were doing was illegal, and most of it would have subjected them to the gallows. So naturally they didn't leave a paper trail for people to follow. But their actions were so startling and so powerfully put into the mind of the early industrial era that they were never forgotten.

The common view of the Luddites paints them smashing machines, generally an antitechnology movement.

The original Luddites had a much wider perspective than that. Yes, they were concerned with machines, but they were concerned with the onrushing Industrial Revolution and what they saw it doing to their settled lives. They couldn't have known the extent to which the Industrial Revolution was going to transform the face of England and then the rest of the world, but they could see that if it were allowed to continue not only would they be displaced from their jobs, but their communities would be transformed, their families would be transformed.

Think of what a cotton weaver faced in 1811: He had been working in his cottage with his wife, who probably had a machine alongside his. His children would do some of the small work around them. You would take Sunday off. There was a tradition of St. Monday, so you would take Monday off. Tuesday was normally a day of recovery for taking off Sunday and Monday. The cloth merchant would be coming around, or you would go to him maybe, on Friday. So, Wednesday late in the day you would start filling your order for the cloth merchant. You would work at this a bit then go out into the vegetable garden or milk the cow, come back in. You would go down to see the lads at the pub. You would get a certain amount done, enough to keep you going through the next week from selling it to this guy on Friday.

The Industrial Revolution could not tolerate that kind of inefficiency. The factory was built and the owners said, "We are not interested in having this man come into the factory because he will ask too much in wages. We will have the wife and the children come in—that's all we need here. We need one man for about thirty to forty children. They will come in at six o'clock in the morning and they will leave at eight, ten o'clock at night. And they will be locked in the entire time."

That is just the suggestion of the transformation that the Industrial Revolution was creating in their lives. It is no wonder that they were impelled to resistance. But it wasn't resistance merely against this or that machine or the factory, but the transformation that was altering their lives.

When the word "Luddite" gets resurrected in the '50s, '60s, '70s of this century, it gets resurrected with all of that forgotten and only the business about being opposed to machines, opposed to technology, remembered. Somebody compared it to the word "Pinko" as that word was used in the '50s. It becomes used as a curse word by those who want to celebrate the ascendancy of technology by making people who are Luddites look to be ridiculous.

The Luddites of today are again not only concerned with the technological transformations but [with] what the implications are for our society as a whole, the culture as a whole. The intellectuals and activists who make up the hard core of people who call themselves neo-Luddites are not people who are going to be displaced from their jobs by machines, but who are aware that there is a great deal of displacement by these machines. More than that, they know that there is social and environmental displacement that will transform the way this society looks if the computer revolution goes on unchecked.

The parallel between the original Luddites and the neo-Luddites of today is this transformation?

With social costs of immense proportions. The misery that was caused in England in the four or five decades after the Luddites was the kind of thing that Dickens and others wrote about.

The suffering is not quite so obvious in this country because it begins as a richer country. But indeed the misery is around us. There is the misery of the underclass without question. But there is also the anxiety and the feeling of hopelessness in the great middle body of this society in America—people whose real income has gone down over the last twenty to twenty-five years.

Not meaning to trivialize or minimize the suffering, but how much of this do you see as a period of adjustments associated with a transition, and how much as long-term, and thus the way society is going to be structured?

We are in a transition, that's true. Right now I would judge we're about twenty years into this computer revolution, if we like to mark if from the beginning influence of the microprocessor, and it will continue. One of the things about computers is that they are able to generate vast changes in other disciplines, such as biotechnology, for example.

In that sense, yes, it is a transition. But it is not necessarily a transition to anything except more of the same—that is to say an increasingly advantaged power class at the top with more power and money and influence than ever before, increasingly disadvantaged people at the bottom, and increasingly displaceable people in the middle as machines take over more and more of those jobs.

The image usually offered is that when technology is introduced it has short-term displacements, but in the long run it will offer employment to people. This is an actual misreading of history. What finally got England out of the awful miseries of the half century after the introduction of these machines was its empire and the wars that it fought around that empire, and then the wars it went on to fight in Europe. That is to say that jobs were created and production was encouraged by consumption within these empires—consumption by the armies that were necessary to maintain these empires. It wasn't that the technology inherently produces more jobs, because that's not what manufacturers need. Technology does away with jobs—that is essentially why you have it. The point of it is so they wouldn't have to pay the labor costs.

Your book opens with a brief discussion of Robin Hood fighting against enclosure, the taking away of open areas, to keep what was then the traditional way of life. The weavers, who followed after Robin

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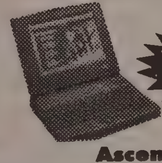

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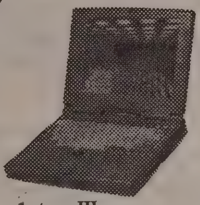

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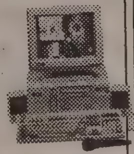

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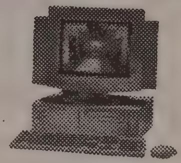

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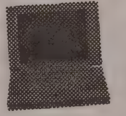

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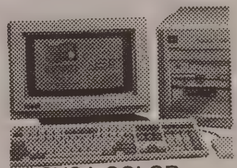

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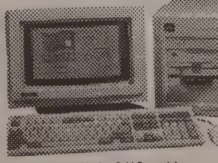

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Hood's defeat, fought as Luddites to maintain their traditional way of life. In today's world, your argument seems to offer a voice for the interests of the manufacturing workforce. Are you fighting to keep that way of life?
It is not a matter of trying to say that we should restore the American factory. In fact, the American factory has virtually disappeared and the employment in that factory has dwindled dramatically. Nobody would argue that the factory conditions of even the best unionized plant were anything that anybody wanted to undergo.

The American factory has virtually disappeared and the employment in that factory has dwindled dramatically. Nobody would argue that the factory conditions of even the best unionized plant were anything that anybody wanted to undergo.

The critique of the neo-Luddites is against industrialism as a whole—the principles and values of that industrialism. Whether it is done in America or in Russia or in anyplace else in the world, that industrialism is the same, has the same effect. The neo-Luddite critique would dispense with not only the machinery of industrialism, but even more, the values encoded in those machines—in the "ism" that is industrialism.

The same era of Enlightenment that brought with it scientific exploration and development—and thus, industrialism—also brought with it the social and political values for democracy, which I assume you value and support.
I can't speak for neo-Luddites in general, but as for myself, the Enlightenment was one of the great dark turns that European society took. But it was absolutely predictable, this dark turn, because it was one which enabled a greater control over nature to take place and a greater power for the individual as against the community.

There is a long process in European history from roughly 1492 on, of which the Enlightenment is a part, which celebrates materialism as a value, the conquering of nature as a way to advance that materialism, and the role of the individual as the recipient of this materialism. This history of the last 500 years is indeed the history of rampant individualism, rampant materialism, the destruction of community, and the rise of the nation-state. For myself, I would say that all of this is highly dubious.

But to this more specific issue, the values that the neo-Luddites would oppose to the industrial values are those which are not necessarily locatable at any particular place in time or space, but would have to do with community and sustainability, with living in harmony with nature, with living in harmony within the society. When you go looking for places where this might be found or has been found you find out first of all that it locates in the greater part of human communities for the greater part of the time we've been on earth. It existed in many parts of the world in village societies. It still exists in tribal communities, and it exists today is some pockets of America, such as the Amish and a few Indian communities. These are very old and quite well known values which I would call tribalism, although that is kind of a "red flag" word, or communitarianism if you like. Those are the values we would oppose to the industrial ones.

Given that this great change is happening, doesn't this also mean that there are possibilities to shape it, to have input? In fact, more possibilities exist when the shift is occurring than when the system is more mature and stable.
For whom to mold it?

Isn't that the struggle?
Yes, I guess it is the struggle. It's just that it does seem so difficult to imagine that people and communities would be shaping this transformation and much more logical to assume that corporations and the military side of governments would be shaping it.

One area where it has been easier to see this battle is electronic networks. This fight is over the future, who and how it will be shaped, and if the promise of networks as a democratizing tool can be realized—whether the net will be shaped and controlled only by major corporations and their interest groups or not.
Do you doubt that they'll win? What other power is there in this society? What other countervailing power is there? It doesn't exist.

What we've seen in the last twenty years precisely along with the rise of the computer revolution has been the corporate revolution, because they were the ones who like this stuff, benefit most from this stuff. Corporations, it seems to me, unnoticed by the general public, have come to a point of mastery over our economy, and hence over our society. That is unchallengable. I don't see any force that is going to rise to challenge it except if I could awaken all of the citizens to do so, but I am not sure I can.

You are arguing a fairly pessimistic, disempowered position against the opposite view of the democratizing potential of this technology—that the nature of the microcomputer is not mass production and broadcast, but decentralized production, decentralized broadcast, and greater access to information by individuals.
That's a big load of dog's breakfast there. I hardly know which to pick at. In the first place I don't know what you mean by democratization, but whatever it means it will not mean an individual having a vote to reach agreement in the place where that individual lives. It will not resemble the direct democracy that Rousseau would insist, and I would insist, is the only kind of democracy. So, if there is some democracy that enables the structure that now exists to continue operating, you could call that democracy; but I would call that autocracy instead.

You can't democratize—you can't control—a technology that was established for other reasons. The whole point about technology is that it comes with this baggage, with certain kinds of baggage. A society that wants corporate control develops a certain type of technology and gets the government to support and often pay for that technology, as happened in the first Industrial Revolution and is happening in the second Industrial Revolution.

This technology does not come with democracy in it. Take a nuclear power plant, it cannot be personal, democratic, just, fair, simple, open to all. It is by its very nature inevitably the expression of the society that sponsors it.

This seems to lump everything into a single bag. How much of your critique is of "technology" per se or the social structures that implement it, control it, and ultimately manipulate it? Aren't there some distinctions or lines that can be drawn?
No, they are the same thing. The institutions that are in power create the technology that helps them.

Many people feel the personal computer revolution came about largely by people that were outside the system.

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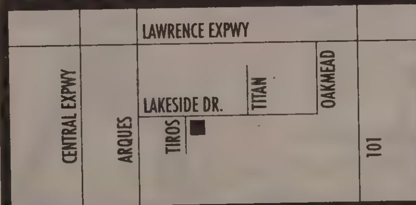

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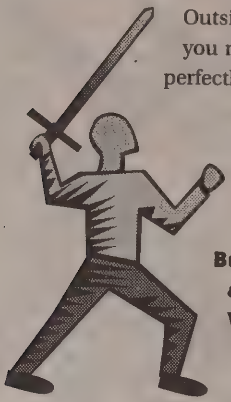


Outside of what system? They weren't working for IBM, you mean. But that's not outside the system. They were perfectly well planted in the system.

Can you ever be outside the system?
You have to have different values, that's how you can be outside the system.

But the people creating a lot of those tools, the archetypal hacker for instance...
Were wonderful individuals and they love their children. They may believe they are anarchic and individualistic; in fact, they are simply the ganglia out at the edges of this system, which is using them. It is no longer quite as Pentagon-driven as it once was, although you have to understand that many of the values that are in the technology are those values the Pentagon is interested in; it was encouraging these corporations to develop certain kinds of technology that would enable it to do the things it wanted to do.

The Luddites of today are again not only concerned with the technological transformations, but [with] what the implications are for our society as a whole, the culture as a whole.

Believe me, a community that was responsible for its own technology would have other purposes in mind, other needs in mind. You could bet that a community that comes out of this tradition would be creative in coming up with the technologies it needed. In this kind of ideal empowered community I am talking about, it would not be ingenuity for the sake of the individual, or something that the individual could use, rather it would be something to the benefit of the community.

This is not such a fantastic idea when you realize that tribal societies have always operated in this way and in some sense still do, insofar as they survive. That is, the individual is not celebrated for the invention, and an invention that would empower an individual would not be encouraged by the rest of the people. Only that which worked to the benefit of the common good would be encouraged.

I am talking about a world that once was. I am not sure that it's a world that could still be. But I am suggesting that there is a whole other way of looking at technology, to say that it could embody other values than the values that it now does embody.

Technologies are not accidental, happenstantial. They come out of the culture that creates them. The English culture of the Industrial Revolution fostered technologies that destroyed the cottage industries. Certain kinds of technologies were adopted, encouraged, and paid for by Parliament, and certain kinds were discarded.

You mentioned that part of the original Luddite battle was not specific to machines but to capital in general—its concentration and who was controlling it. I wonder if the weavers had been in control of the implementation of the new technologies and in sharing its benefits, if events would have played out differently.
There is no way for cottagers to even relate to, much less control, the steam engine. The steam engine inherently, *of necessity*, demands a large factory operation with many attendant machines off of this engine. This is an engine that keeps turning out power and you have to keep doing things at the sides of it in order to make it economical. You have to do all of this in large-scale buildings, which is how we get factories. This means nothing to the cottager. The cottager would have no way to relate to this, to control it, or to use it.

The individual cottager may not, but the community could say, "This creates a benefit for everyone and we can work together to distribute the power that this machine creates."
This is hard to imagine. But we will play with that for a little bit. The community voluntarily says, "We want this factory."

You cannot make it a humanized operation. You cannot break at twelve o'clock, three o'clock, and five o'clock to go over to the pub—you can't do that with a factory. And you cannot help but have little children scurrying under the wheels and get whapped in the head and injured. That's what this technology does. There's no way to escape that. Even if you could imagine a community-owned factory, how would it be anything but the evil of the factory in a different guise?

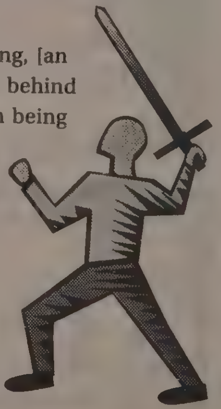
Let me give an example. I remember reading about the production of steel during and following the Second World War.

During the war there was a shortage of men and they had to hire more women, who were not as physically strong. The mills were redesigned so that physical strength was less important. This also made everything safer and easier on your body. When the war ended the women were fired to give the jobs back to the men. The mills were retrofitted to the way they were, discarding the health and safety advances associated with making the work less taxing physically.

To me, this shows that it has always been possible to build a better factory, one that is less harsh to the worker.
You obviously could. If you have a strong union or if you have a government that creates OSHA, you can do some of this. But substantially whatever you do is tinkering with a machine that is designed for other purposes. It is not designed for benevolence on the assembly line.

We have seen industrialism march around the world from 1800 to the very present and in all cases it does not work to the empowerment of the individual or the empowerment of the community. It works to degrade people. The shops that are operating on the Mexican border right now are just another example of it. In fact, the recent stories [about those border shops] are a precise image of what the Luddites were facing, [an image] of those long sixteen- to twenty-hour days, behind locked doors, [with] children primarily and women being employed.

I can't speak for neo-Luddites in general, but as for myself, the Enlightenment was one of the great dark turns that European society took.



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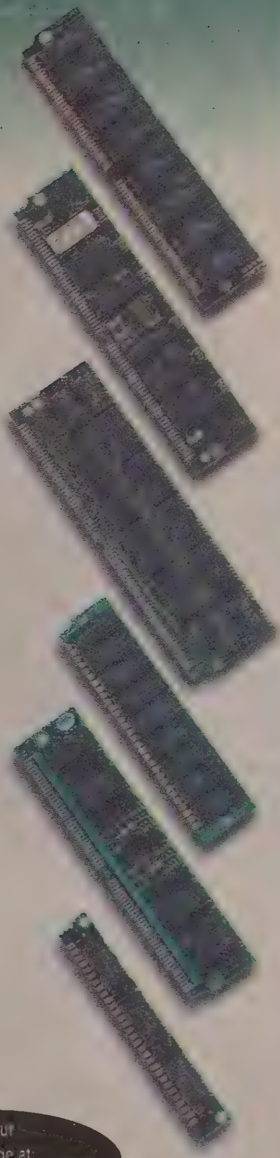

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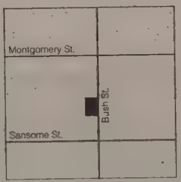

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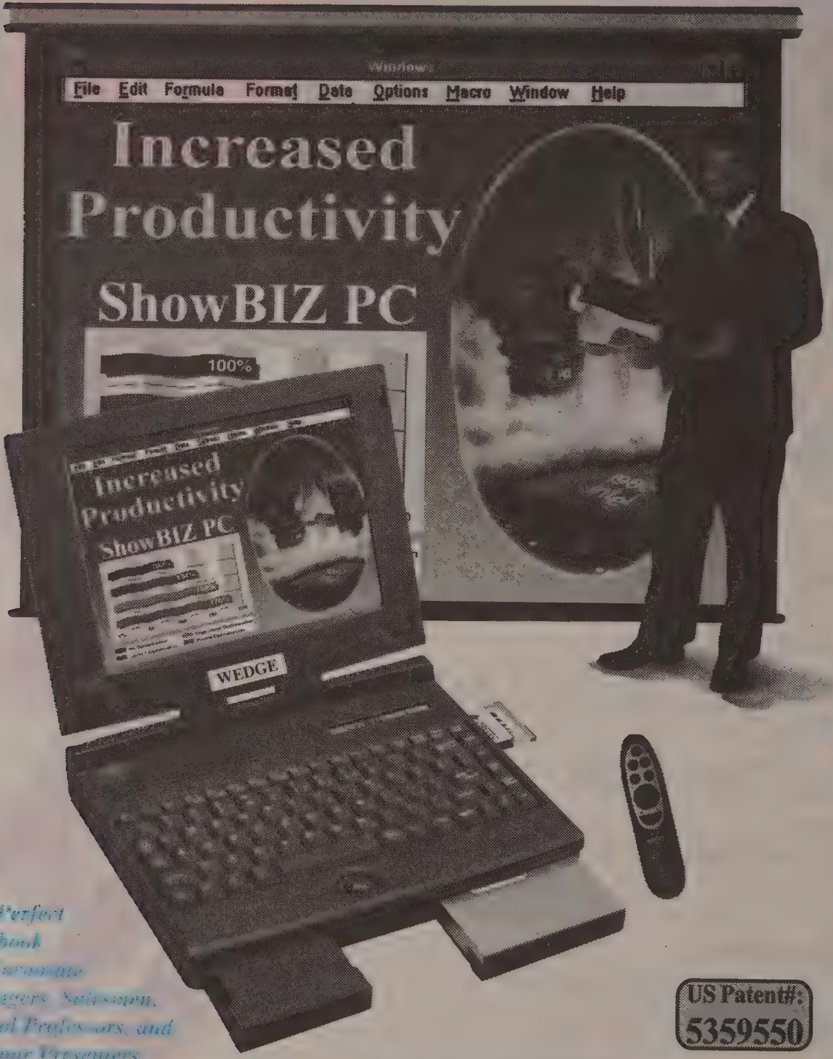

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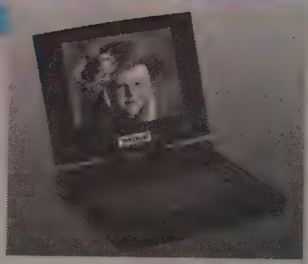

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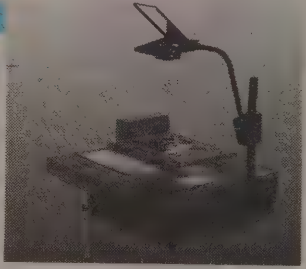

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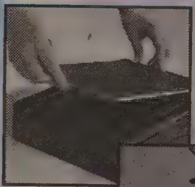

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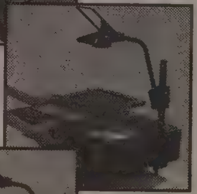

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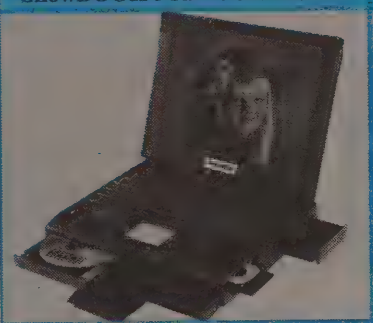

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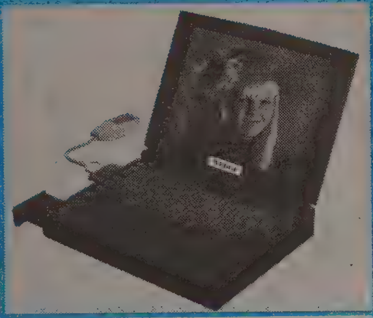

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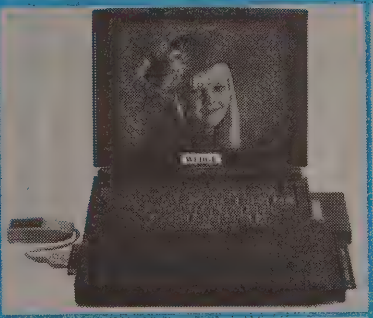

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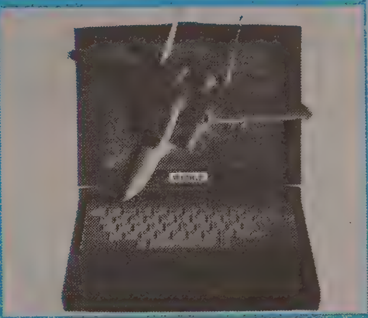

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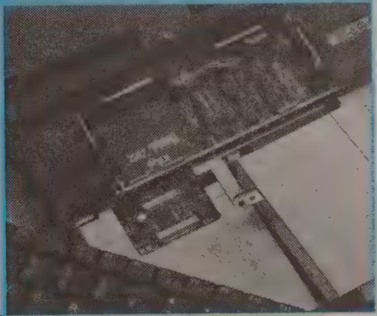

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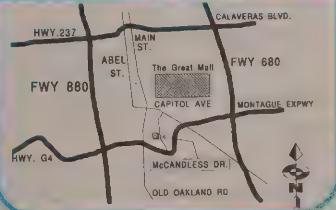

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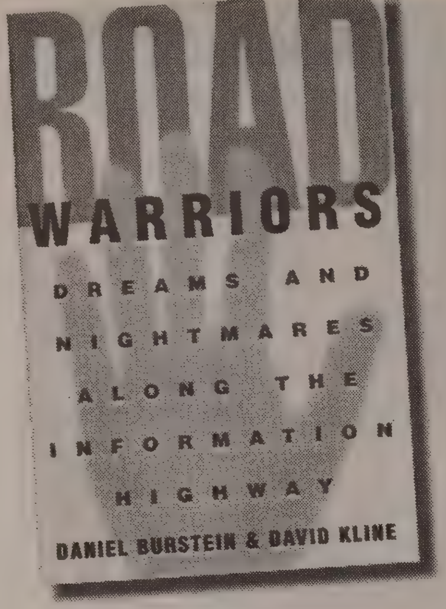
ROAD
WARRIORS
DREAMS AND NIGHTMARES ALONG THE INFORMATION HIGHWAY
DANIEL BURSTEIN & DAVID KLINE

ROAD WARRIORS

A Critical Look At Infomania

By Bronwyn Neal

These days, just about everyone is scrambling toward "the Information Highway," that great trough of socioeconomic possibility encompassing the Internet, multimedia, and interactive TV. Many do not know exactly what they are scrambling for, but everyone—from the most porcine corporation rooting for digital profits to the least computer-literate AOL subscriber trying to grok the World Wide Web—knows that the Highway is important.

In *Road Warriors: Dreams and Nightmares Along the Information Highway*, authors Daniel Burstein and David Kline undertake with some success the difficult task of sketching out The Big Picture. It is by no means a definitive map; as the authors wisely admit, in today's ever-changing technological landscape, the best they can do is "interpret developing storm patterns and suggest ways to secure the high ground." This they accomplish with illustrative tales of corporate success and failure, interviews with major players on the front lines of change, and thought-provoking ruminations on some ramifications and defining moments of the Digital Revolution.

True Tales

One such moment was February of 1994, when the attempted merger between cable giant TCI and the most forward-looking of the regional Bell operating companies (RBOCs), Bell Atlantic, fell through. The prospect of such a union (valued at $33 billion, it would have been the largest merger in US history) ushered in widespread hype about the supposed imminence of advanced, widespread interactive TV services. The deal's subsequent demise served as a cold splash of reality for the regional Bells such as Bell Atlantic, whose CEO Ray Smith realized that RBOCs would "have to get into the video business because cable was going to get into the telephone business." *Road Warriors*' "Interview Triptych" with Smith, TCI's John Malone, and FCC Chairman Reed Hundt renders the personalities behind the vapor alliance in soap-operatic glory.

Burstein and Kline document other familiar dramas, such as that of the unflappable if Icarus-like Trip Hawkins, whose 3DO proved that only the hardest-core technophiles would be willing to pay $700 for video game hardware.

Then there's the Jim Clark/Ed McCracken rift at SGI, a drama of almost Shakespearian proportion. Frustrated with the rest of his company's lack of interest in interactive TV, founder Clark resigned to pursue it on his own, only to convert weeks later to the gospel of the Internet and subsequently start Netscape Communications—at the same time that new SGI CEO McCracken finally saw the light of interactive TV!

Boon Or Bane?

Burstein and Kline have a knack for putting such real-life fables into perspective. But *Road Warriors* sets its sights not only on the corporations of the new computer industry, but also on individuals and society as a whole. The authors' concern for how new technology will affect the lives of everyday people is apparent from the beginning. They state fairly early on that "when it comes to an enterprise as far-reaching in its social and economic implications as the Information Highway, it is imperative that the citizenry have a voice in determining how and in whose interests it will be financed, built, and operated."

But the specifics of their concern are not always consistent. Midway through the book, in a chapter tellingly entitled "Private Riches, Social Wealth," Burstein and Kline equate the Digital Revolution with "a quantum leap" in general wealth creation. No argument there; as they duly note, information industries increasingly play a greater role in the economy.

A rather too-rosy moral emerges from all of this, however. We now, they opine, "have the chance to turn around the falling average living standards that have, in the last 25 years, correlated so closely with public cynicism and the sense of American decline." They add, "Ahead lies a period of new capital formation so substantial it could renew and reinvigorate the American Dream."

It is true that *average* living standards could indeed rise in the near future, but in our increasingly polarized society, that doesn't mean that the *majority* of people will be any closer to achieving the American Dream than they are today. As Burstein and Kline themselves adeptly articulate two chapters later, private riches rarely entail social wealth for society as a whole: "The architects of the new economy have many things figured out, but most of what they have figured out applies to their well-educated, highly skilled colleagues at the top of the demographic pyramid. Generally, they have no answer to the question of what society will do with those who are disenfranchised from opportunity..."

Indeed, the authors observe, "technology will tend—in the absence of enlightened public policy—to serve as a force that accelerates the dangerous polarization, fragmentation, and splintering of our society—which is exactly what it is doing right now."

In the face of such a forecast, the authors' ultimate optimism about the potential for the Digital Revolution to reinvigorate America rings somewhat hollow. But *Road Warriors* is nonetheless an engaging and informative read, especially for neophytes in need of a framework for understanding the myriad elements of infoculture. ■

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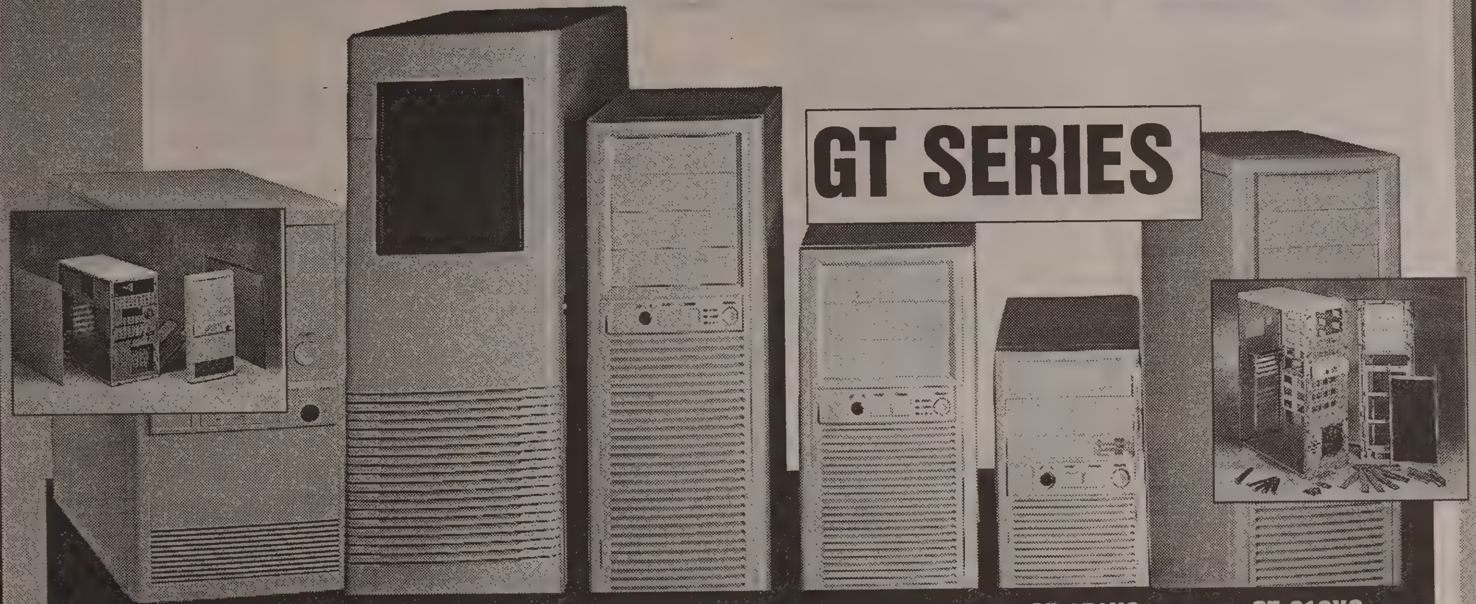

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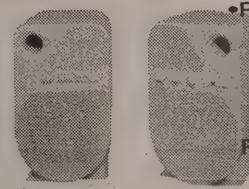

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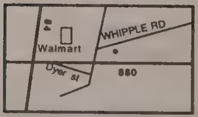

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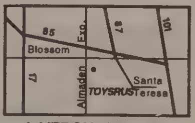

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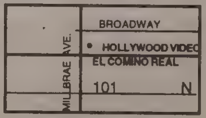

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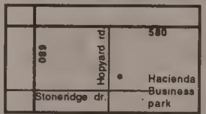

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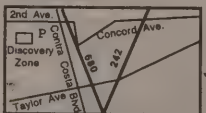

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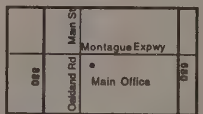

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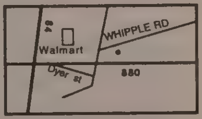

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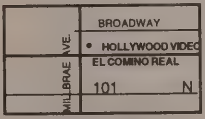

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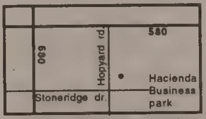

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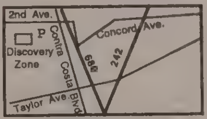

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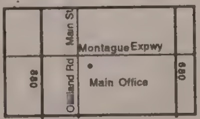

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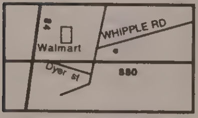

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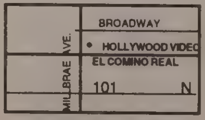

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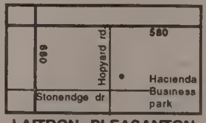

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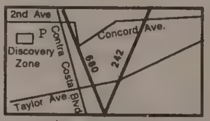

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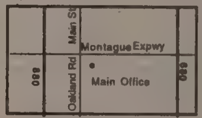

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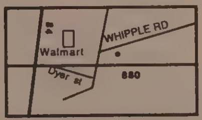

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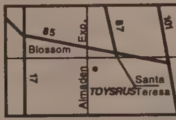

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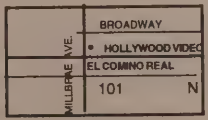

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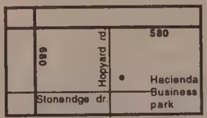

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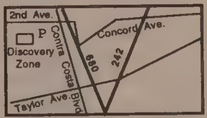

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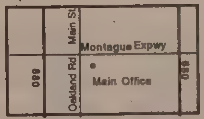

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Mac Rules—

Or, Don't Believe Everything You Read In The Press

BMUG • By David Morgenstern

What a hairy time for the Macintosh! Millions of people bought Macintosh models in the past handful of months and more than 80,000 users flocked to the Macworld Expo in San Francisco—a record number and well up from last year.

But lest we forget, Apple has been declared to have totally self-destructed. Kaput. Finito. Dead in the water. Or that's what the mainstream press know-it-alls repeated over and over again.

Fortunately, BMUGers know better. Problems aplenty have cropped up in the past and Apple has weathered them. We believe with perfect faith that whatever happens, the Mac will survive.

Forget the doom and gloom from the PC pack and fellow-travelers, who hold fast to the flavors of Intel hardware and Microsoft "windowing environments." We'll stick with the Finder, thank you very much!

This month I'll take a look at a few of the folktales recently floated mainly by popular newspapers and magazines. Some of these rip-jobs were thinly disguised editorials, while others ran roughshod over facts that might give the lie to an overly simplistic thesis. I will give you some alternative viewpoints to mention around the watercooler.

In addition, there's the monthly dollop of tips, and a few predictions from members of the BMUG braintrust that we couldn't fit into our recent prognostications column.

Onward.

The Blame Game

In January and February, BMUGers gnashed their teeth with the barrage of negative news reports, stock slides, and frantic press releases over the hullabaloo around the latest biannual Apple struggles. Relatives called in from around the country and wrung their hands over the state of the Macintosh. It was a mess.

The news was bad: a $69 million loss in the last quarter, a potential $125 million hit in this quarter, layoffs, and management flight. A significant bummer.

Apple was in and out of negotiations with Sun Microsystems and a host of other contenders ranging from Japanese powerhouses such as Sony Corp. and Matsushita, to Oracle and IBM. Newspapers portrayed these events as either done deals or the natural course of events, since Apple was obviously as good as dead.

But the actual numbers were interesting. Apple sold 1.3 million Macs in the quarter and one million of them were Power Mac models. That's a lot of machines. Although the company sold $3.15 billion worth of goods, its margins crept down into the cellar and thus came the losses.

Countless reports in the press hammered Apple over the problems, from the nightly news to the front pages of newspapers that had never even covered Apple or rarely any other computer maker. Many of these news stories were at best simplistic, and at worst totally inaccurate. Apple is having problems, but must that cast everything that the company touches into doubt? Not.

Reality Checkbook

During the extended period of Mac bashing, some writers said that it's not wise to buy a Mac. They claimed there's a dearth of software for the Mac, that developers aren't writing for the platform, and it's a "bad investment," as if the purchase of a computer is equivalent to buying a share of stock.

Here's a short reality check:

•The Software Thing. **The lack of Mac software** is a piece of propaganda that has tagged along with the Mac since its inception more than a decade ago. At that time there were few applications other than the classic MacWrite and MacPaint that were bundled with the machine.

Today there are many thousands of Mac titles. A recent search of the Computer Select database by PC World magazine (a somewhat nonbiased source) found 6500 different titles. The Macintosh Multimedia and Product Registry lists more than 8000 products.

These publications overlook the many small applications, and spreadsheet and database templates aimed at very vertical markets. They often go unnoticed by the computer press, but they exist for almost every type of business or arcane purpose. Where's that goat herding software for the Mac?

A recent post on Planet BMUG framed the quantity issue with the line: The Mac has 10,000 pieces of software you will never use; the PC has 40,000 programs you will never use. We are a long way from the time when a person could have used every program available for the Mac.

There's also seldom mention of software quality when the quantity issue is raised. Mac users expect a higher level of performance and usability for commercial software than PC users; this is similarly reflected in the design of shareware and small vertical-market programs.

Both Mac and PC computer systems nowadays are sold with fantastic software bundles. Most Apple Performa models, education market, and Power Computing Corp.'s clones, come with a range of productivity software such as ClarisWorks. They also usually come standard with a spread of CD-ROM titles.

•Mac developers are switching to Windows 95. While Mac developers are looking at moving their 32-bit software over to Windows 95, plenty of new and unique software is being created for the Mac. After wandering around the recent Macworld Expo, I was cheered by all the new products in almost every classification, especially for the Internet, multimedia, graphics, and science.

According to many vendors, having both Windows and Mac versions is a plus for the Mac, especially with business applications. This is seldom mentioned by writers eager to give the Mac a black eye.

Since many sites have a mix of Macs and PCs, they feel better choosing an application that plays on both sides of the fence. Unfortunately for developers, the PC software is usually harder to test and support.

Part of the problem stems from the practices of big computer stores and the analyst companies that track software sales. Most stores have certain shelves for Mac-only titles and the rest are for Windows titles. But if a title is for both Mac and Windows, where do you think it goes? In the Windows section. Users don't know that both sides of the fence are covered in a single box, and the stores don't bother putting up a Windows/Mac section.

•The Macintosh isn't a "good investment." This phrase has always puzzled me, since it implies that your computer hardware and software hold value.

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Unlike a fancy foreign sedan, computers are not good vehicles for investment; they lose their value quickly through obsolescence from the moment of purchase.

A product life cycle in the computer industry is now less than two years, which means that you will be able to buy a similar system for half the cost in about eighteen months—or twice the system for the same amount. Mac systems have kept up with this trend, much to Apple's dismay. Users, on the other hand, have benefited from the low cost of fantastic technology.

Even better for new Mac users are the cost savings now appearing from the PCI bus and processor daughtercard architecture used in the latest Mac models. At the Expo, Diamond Multimedia showed a forthcoming low-cost card that will combine a television tuner and video input. The price will be around $150!

This is a great time to buy a Mac, whether from Apple or from a Mac OS clone vendor. Period.

Apple sold 1.3 million Macs in the quarter, and one million of them were Power Mac models. That's a lot of machines. Although the company sold $3.15 billion worth of goods, its margins crept down into the cellar, and thus came the losses.

The real investment we make in any computer is that of our time and the data we then create. The Mac has proven itself to be a high-quality machine and one of the easiest computers to use. It's also a computer that can be maintained by ordinary human beings. Mac users have more time to invest in computing and less in kvetching. Or less in computing and more with the family.

Will the Mac be around in a year? In two years or ten? I think so. There's no doubt that Apple's board of directors and management need a kick in the pants, or maybe out the door. Get it together! Hopefully, Gilbert Amelio's new team will make the grade.

But with more than twenty million Mac users in the world, common standards for hardware and software compatibility between different platforms, your hard-won data will be readable and usable in the future. BMUG plans on being there too, still offering a helping hand to computer users and pointing out how hardware and software can be improved.

Predictions, Round Too

Here are a couple of late-coming predictions for this year. As I warned last time, the prognostications are for entertainment purposes

continued on page 288

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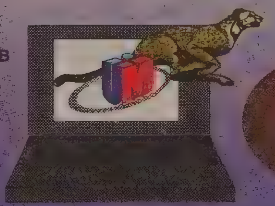

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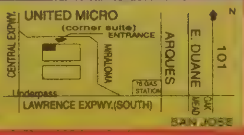

Are Encrypted Signatures Legally Valid?

A Look At The Hazy Area Where The Law And Technology Meet

By Robert Moskowitz

NO ONE SUGGESTS THAT PRIVACY DOESNT MATTER. But that's no guarantee it's easily obtainable.

In this space our slant on the topic—maintaining privacy for Level One activities (trying to arrange a private one-time meeting), for Level Two activities (trying to manage a private ongoing relationship), and for Level Three activities (conducting normal, legal business affairs with privacy)—can reasonably be understood to be that protection is required for all the information we store on our computers and exchange with others.

As we've discussed, there are several good methods for protecting such files not only from prying eyes, but from tampering by unauthorized persons either while they're on your computer or while they're in transit to another person.

But as always, computer technology is leaping far ahead of most other social factors, including both our day-to-day attitudes and laws regarding privacy. For example, laws covering theft of property had to be amended recently to cover theft of computerized information, laws covering the validity of signatures had to be amended to cover facsimile transmission of signatures.

It's perfectly reasonable and practical to ask whether a digital signature—thoroughly encoded by means of strong public-key encryption such as Pretty Good Privacy or another security system and thus able to be 100% authenticated when it arrives at its destination—actually counts as a legal signature.

According to Jeffrey W. Rose, an attorney in Orange County, California, whose practice covers intellectual property and high-technology issues, including copyright and trademark litigation, licensing, and other transactional matters, and who also serves as the chairman for the Technology Law Section for the Orange County Bar Association, the answer to this question is a possible "Yes."

"In most circumstances," says Rose, "an email signature would be valid. But not necessarily so, and not always."

Here's more detail on this important issue:

As long as a contract is not required to be in writing, an email acceptance carries as much weight as any other acceptance, without regard to whether it contains a signature and/or is encrypted. The primary question is simply whether the terms of the contract have been accepted or consented to by both parties. The only requirements for valid consent are that it be free, mutual, and communicated by each party to one another. Under this standard interpretation of existing law, any communication of consent would bind the person to the terms of the contract, whether the consent be communicated by email, snail mail, voice mail, or orally in some face-to-face situation.

Encryption of an email signature would come into play only if the

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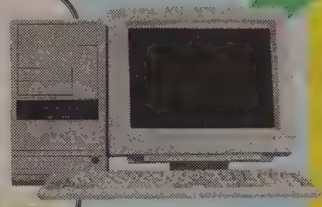

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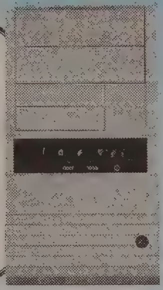

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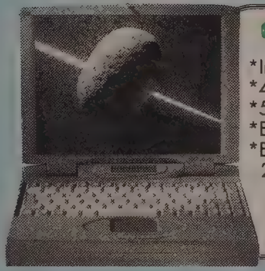

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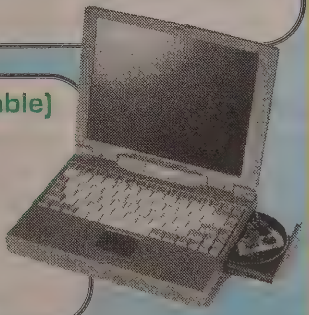

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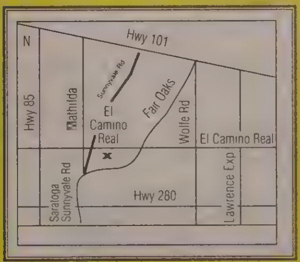

signing party later claimed mistake or otherwise tried to rescind the contract. Evidence that the signature had been sent by encrypted email, with all that these technologies entail, would make it hard for the party to claim that he or she did not send the message.

A second area of the law relates to contracts required to be in writing.

Documents governed by the Uniform Commercial Code, for example, would be binding if agreed to by means of an email signature. UCC Section 3401(b) states that "A signature may be made (1) manually or by means of a device or machine, and (2) by the use of any name, including a trade or assumed name, or by a word mark, or symbol executed or adopted by a person with a present intention to authenticate a writing."

In other words, a person attaching an encrypted or unencrypted signature to an agreement or offer would thus be bound by the terms of that offer, so long as he intended the electronic signature to represent his acceptance or consent. Each person would be construed to have effectively adopted the electronic version as his signature just as if he had put pen to paper.

The encryption again would primarily serve to make it more difficult for the party to deny that he or she has previously agreed to the contract.

However, contracts required to be in writing by the Statute of Frauds present a more difficult issue.

Within California, at least, the statute (Cal. Civil Code Section 1624) states that certain contracts are invalid "unless they, or some note or memorandum thereof, are in writing and subscribed by the party to be charged or the party's agent."

These contracts include, among other things, (a) any agreement that is not to be performed within one year of its making, (b) a promise to answer for the debt of another (i.e. a guarantee), (c) agreements relating to leases of real property for more than one year as well as agreements for the sale of real property or any interest therein, (e) agreements hiring agents or brokers to sell real property, and (f) agreements or commitments to loan more than $100,000 for purposes other than personal or household purposes by a party in the business of lending or arranging for credit.

The question of whether or not an encrypted signature is valid for these types of transactions gets interesting based on at least three factors.

First, a subscription can include a "mark." The definition of mark, however, requires that a third party "witness" the mark and supply his own "written" signature as a witness. In addition, the use of a mark appears to be limited to situations where the party cannot write.

Second, the code also provides rules to be followed in proving the validity of a signature, should it come into question. These rules, too, seem to presume that the signature is handwritten. They include techniques such as calling witnesses to the execution of the signature, and comparing the signature to known samples of the party's handwriting.

Third, the Statute of Frauds has most recently been interpreted fairly strictly, meaning that digital signatures, too new to have been contemplated when the law was written, may not be covered by established statutes.

Each of these factors would seem to indicate that a handwritten, or "wet," signature is required for a contract to be valid.

Fortunately (or unfortunately, depending on your point of view), case law and other factors contradict these standards.

For example, telexes containing printed signatures have been found sufficient to make a contract binding. The "adoption" of a prior signature has also been found sufficient in cases governed by the UCC. The issue centers on what the intent of the party was in placing the mark and in the circumstances of the negotiations.

An even more compelling justification for finding that a digitally encrypted signature would be binding is based upon an exception (or two, depending on the court) to the Statute.

Generally, the courts will not permit a party to perpetrate a fraud based upon the use of the Statute. Accordingly, if a party takes steps to lead another to believe that there is a binding contract and the second party then performs certain acts because he believes a valid contract does exist, the first party may not then invoke the Statute to claim the contract is not a valid one.

In other words, if you were to accept an email signature on a contract as valid, and then do your part to fulfill that contract, the other party would be prevented by the courts from trying to ignore his or her obligations under the contract, particularly after enjoying the benefits of what you had done as a result of your belief in the contract's validity.

These arguments are usually referred to as the fraud exception and/or "estoppel."

> As long as a contract is not required to be in writing, an email acceptance carries as much weight as any other acceptance, without regard to whether it contains a signature and/or is encrypted.

As a practical matter, however, Rose's advice to a client would be to not rely on email signatures too much where the Statute applies.

The current bias is generally that if you enter into a contract subject to the Statute of Frauds, you should make sure that all formalities are followed and should execute a formal agreement. The courts have gone to great lengths to find all of the criteria satisfied based on any type of writing. These determinations, however, have been very fact specific.

If detailed negotiations were documented and the circumstances indicated that email communications between you and the other party were commonplace or at least not extraordinary, there's not much reason to worry. It would be very hard for the other party to deny the fact that he or she had intentionally reached an agreement with you.

On the other hand, if the communications are one-sided or there is no real explanation for the use of a digitally encoded signature in place of a regular handwritten one, a court might decide the other way.

In today's practical world, therefore, it remains easier and more certain to follow up an email acceptance with 1) an exchange of hard copies, including handwritten signatures, or 2) a very clear letter (or email) to establish that the email and digitally encoded signature were real-

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ly intended as complete acceptance and execution, especially when the other alternative is to take the disputed matter to court and try to win based upon fairness arguments.

To summarize: Yes an email signature would be binding in most circumstances. The encryption would add to the signature's validity because in most circumstances it would add weight to the actions of the parties and display a greater level of contemplation and intent. It would also be important evidence to help prevent a party from backing out of a contract or claiming mistake.

However, at the present moment there does not appear to be anything in the law or in court decisions that would give greater weight to an encoded email signature than to a non-encoded one.

The California legislature is currently considering a bill (A.B. 1577) regarding digital signatures and a means for verifying their authenticity via encryption. Utah and Washington are also considering similar bills (S.B. 82 in Utah—effective as of May 1, 1995, and S.B. 5959 in Washington, not yet effective).

The Utah bill was first to the plate, being introduced on February 24, 1995. California followed suit with a copycat bill on February 27, 1995, with Washington introducing similar legislation in March.

The California bill has undergone extensive amendments, to date, and now appears headed toward being limited to the use of digital signatures in transactions with the state itself. The Utah bill is broader. Both bills anticipate implementation by means of the use of encryption to verify authenticity and set up rebuttable presumptions.

Utah will apparently rely on public key encryption while California may allow other, as yet uninvented, forms of encryption to also be used. No word is yet available on the contents of the Washington bill.

If you'd like to get more information directly from attorney Jeff Rose, you can email him at *75501.2464@compuserve.com*, or telephone him at (714)754-7400.

Anonymous Remailers

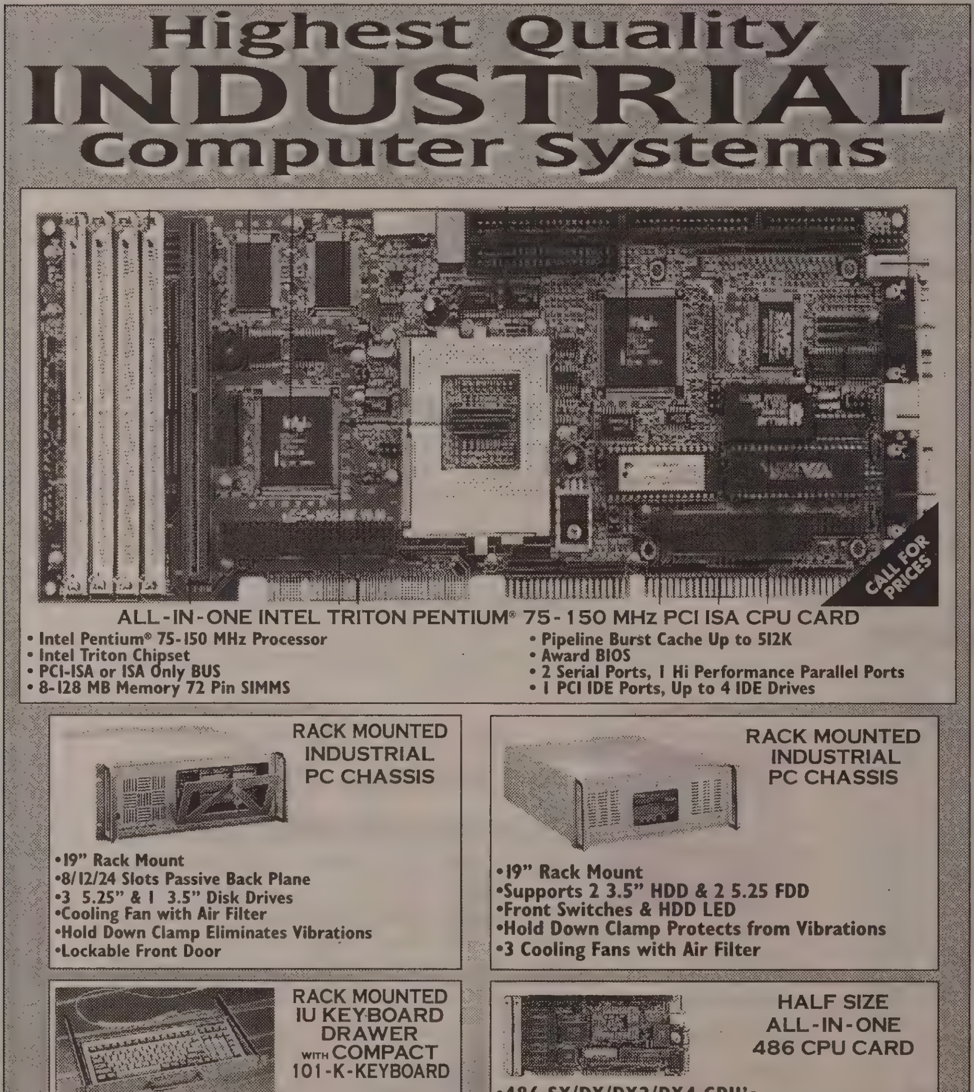
One of the best ways to maintain privacy on the Internet has long been to make use of what are called "anonymous remailers." These computers are set up and maintained specifically to provide a semi-secure "front" designed to help you maintain your privacy.

An anonymous remailer essentially strips out all the identifying codes from your email messages, codes that might let an unwanted observer identify who you are or from where you're operating.

When you send your first message to the server, it automatically creates a new identity for you, and sends you a message telling you the new ID. From then on, any messages you send into the remailer are forwarded to the recipient with this ID instead of your own.

When someone replies to one of your messages, it reaches you only through the anonymous remailer, which restores the identifying codes for your real return address, and forwards the message back to you.

At least, that's what happens in theory. In practice, however, according to Andre Bacard,



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Encrypted Signatures... *continued*

author of *The Computer Privacy Handbook: A Practical Guide to Email Encryption, Data Protection, and PGP Privacy Software* (Peachpit Press, 1-800-283-9444), "some anonymous remailers are safe and some aren't. The most commonly used remailer, for example, called "anon.penet.fi" and located in Finland, is no longer considered completely safe."

One obvious source of privacy compromises with anonymous remailers is that you can't be sure of the personal integrity of every administrator who runs one. Your privacy depends very directly on them, and you probably don't know who they are.

Another source is "electronic mail failures." In some cases, network mail routers make mistakes, try shortcuts to the destination site or do other things that can cause your email to reach its final destination without ever passing through the anonymous remailer. Also, if your return address bounces because the network's name server is down, or configurations are temporarily out of whack, or some other reason, postmasters along the network route might get error messages—and perhaps even your full message—showing your true identity.

> Evidence that the signature had been sent by encrypted email, with all that these technologies entail, would make it hard for the party to claim that he or she did not send the message.

Despite these dangers, you may want to explore the use of anonymous remailers. To help you, here is a brief list. You can get a more complete list by sending an email message to *remailer-list@kiwi.cs.berkeley.edu*:

remail@vox.xs4all.nl
anon@vox.hacktic.nl
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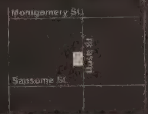

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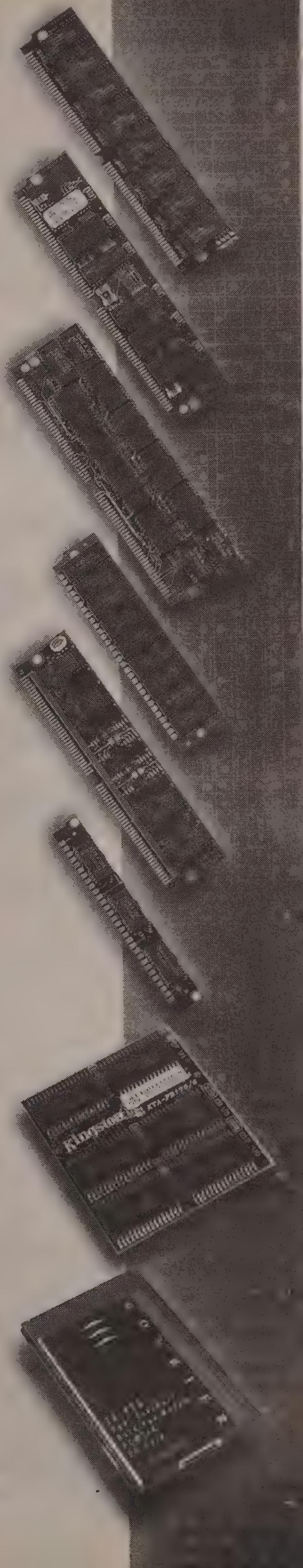

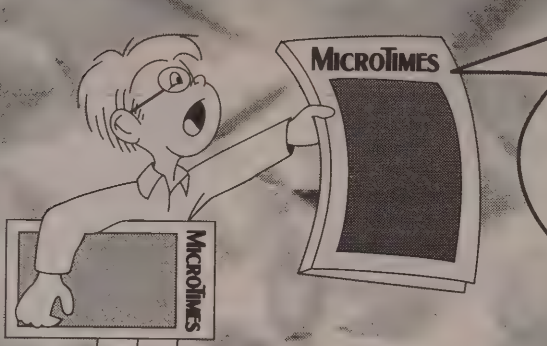

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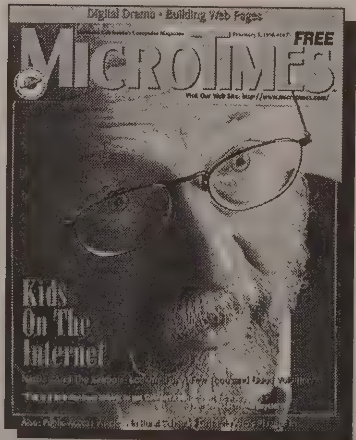

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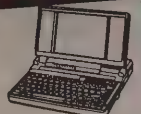

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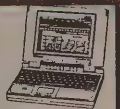

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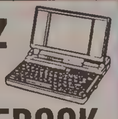

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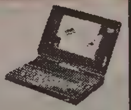

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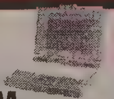

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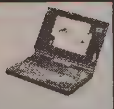

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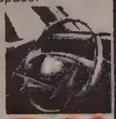

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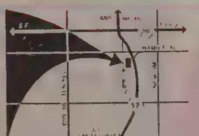

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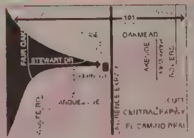

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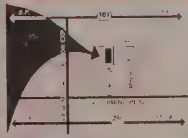

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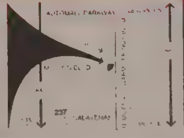

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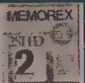

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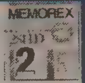

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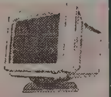

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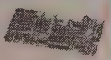

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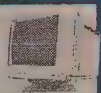

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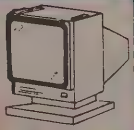

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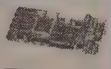

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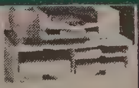

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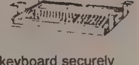

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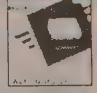

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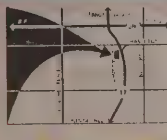

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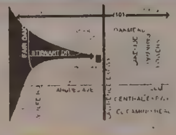

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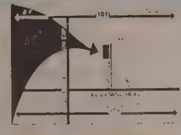

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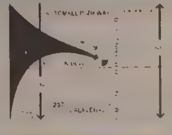

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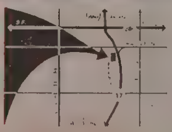

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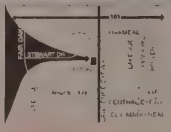

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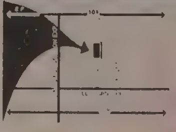

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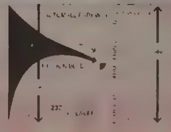

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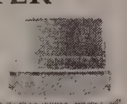

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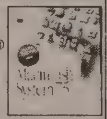

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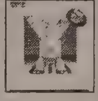

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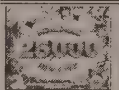

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$129.95

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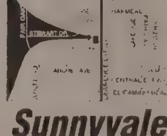

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WHEN YOU'VE GOT AN EPSON YOU'VE GOT A LOT OF COMPANY

EPSON® STYLUS COLOR IIs

- Photo Quality color in Epson 720 dpi mode
- Separate cartridge for crisp black text
- Prints on plain paper, envelopes and Epson's premium coated, glossy paper and transparencies
- Compatible with Windows®, Windows 3.1x, Windows 95, Windows for Workgroups 3.1x

*After $30 Mail-in Rebate
In-store Cost $247

$217*

#2084255

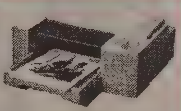
EPSON® STYLUS COLOR II

- 720 X 720 dpi photo quality color
- True black laser quality text
- Prints on plain paper, envelopes and Epson's premium coated, glossy papers and transparencies
- Prints up to 4 pages per minute in black
- Compatible with Windows 3.1x/95 and Macintosh Single user, System 7.1 or Later

#2079590

$399

EPSON® STYLUS COLOR PRO



- Photo Quality • True Black Laser Quality Text
- Prints on plain paper, envelopes and Epson's premium coated, glossy papers and transparencies
- Ideal for printing photographic images, charts and graphs, professional reports, photo and color art proofs
- Compatible with Windows and Macintosh
- Optional Adobe PostScript with Pantone Color Calibration
- Prints 720 x 720 on Plain Paper

#2084277

$599

EPSON® LQ-570+ 24 PIN PRINTER WITH SCALABLE FONTS!

- 80 Column
- 269 CPS Draft Mode
- 112 CPS Letter Quality
- Four Scalable Fonts
- 360 dpi with Optional Film Ribbon

#1612004

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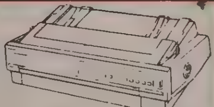
EPSON® LQ-1070 PLUS 24-PIN PRINTER



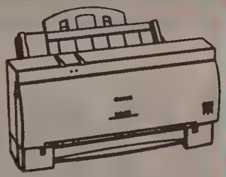
- 136 Column • 269 CPS Draft
- 10 Fonts • 2 Scalable Fonts
- 252 CPS Draft Mode
- 84 CPS NLQ Mode

#1821927

$428

Canon PRINTERS

Canon BJC-210 COLOR BUBBLE JET PRINTER

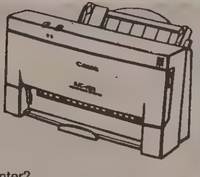


- What can you do with a Canon printer?
- Make greeting cards, t-shirts, stickers and more with Canon Creative CD-ROM including Hallmark Connections™ Everyday Greetings™ and Crayola® Art
- Incredible color at 360 x 360 dpi
- Free 2-year InstantExchange warranty and 15 hour toll-free support

$239

#2098584

Canon BJC-4100 BUBBLE JET PRINTER

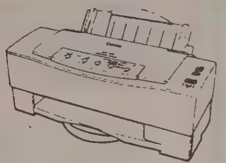


- What can you do with a Canon printer?
- Make greeting cards, t-shirts, stickers and more withCanon Creative CD including Hallmark Connections™ Everyday Greetings™ and Crayola® Art
- Office quality color and black & white printing at 720x360 dpi
- Free 2-year InstantExchange warranty and 15 hour toll-free support
- Meets professional performance demands
- Print color on plain paper, envelopes, transparencies, even fabric
- Helpful Color Advisor software- FREE

$379

#2083689

Canon BJ-610 BUBBLE JET PRINTER



- What can you do with a Canon printer?
- Make greeting cards, t-shirts, stickers and more with Canon Creative CD including Hallmark Connections™ Everyday Greetings™ and Crayola® Art
- Near photographic color output at 720x720dpi
- Free 2-year InstantExchange warranty and 15 hour toll=free support
- No-waste ink cartridge system
- Print color on plain paper, transparencies, even fabric
- Fast color printing with Microsoft® Windows® Printing System

$549

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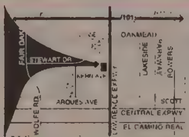

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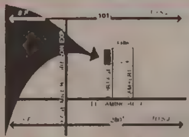

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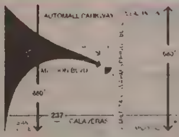
(415) 496-6044



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DIGITAL DEALS

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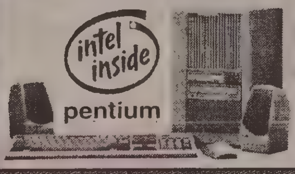

intel inside
pentium

Starion 911

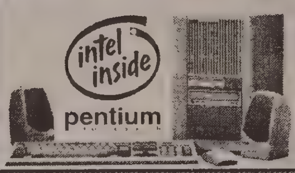
PENTIUM® 75MHz PROCESSOR 8MB/1.2GB 4X MULTIMEDIA COMPUTER

8MB RAM • 1.2GB Hard Drive • 1.44 Floppy Drive
Quad-speed CD-ROM • 28.8 Fax/Modem
16-bit Sound Card • Speakers • Windows® 95 Keyboard
Mouse • Windows® 95
Monitor Sold Separately
#59234

WINDOWS® 95 INCLUDED!

$1499

digital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pentium

Starion 940

PENTIUM® 133MHz PROCESSOR 16MB/1.2GB COMPUTER

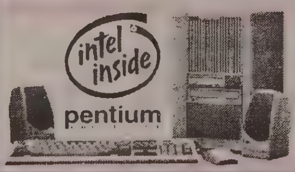
Pentium® 133 Processor • 16MB RAM 1.2GB Hard Drive
256K Cache 64-bit video card • 28,800 Fax/Modem Quad-speed CD-ROM
16-bit Stereo sound Speakers • CD Titles • Keyboard Mouse • Windows® 95

#2066712

WINDOWS® 95 INCLUDED!

$2495

digital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Starion 950

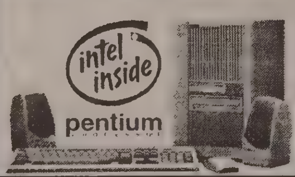
PENTIUM® 150MHz PROCESSOR 16MB/1.6GB 4XCD-ROM COMPUTER

Pentium® 150 MHz Processor • 16MB RAM • 1.6GB Hard Drive • 256K Cache
• 64-bit video card • 28,800 Fax/Modem
• Quad-speed CD-ROM • Keyboard
• Mouse • Windows® 95
Monitor Sold Separately
#247244

WINDOWS® 95 INCLUDED!

$2595

digital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Starion 960

PENTIUM® 166MHz PROCESSOR 16MB/1.6GB HARD DRIVE COMPUTER

64 Bit video w/1MB RAM • 28,800 fax/ modem • 256K Cache
4x CD-ROM • 16 Bit sound card • Speakers • Windows® 95
CD-titles

Monitor Sold Separately

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WINDOWS® 95 INCLUDED!

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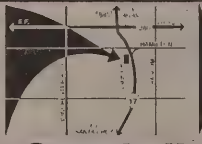
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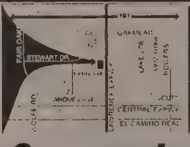
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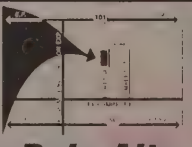

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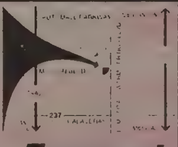

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CARDINAL
28.8 INTERNAL FAX/MODEM WITH VOICE MAIL

- Internal 28,800 (V.34) fax/modem with voice mail (ISA)
- Plug and Play, Microsoft Windows 95 compatible
- Voice View Certified
- Caller ID Data (to capture phone numbers)
- FaxWorks and Talkshop software
- Remote message retrieval
- Alternating voice and data on a single call
- Lifetime Warranty
- Made in the USA

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$175

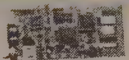
CARDINAL
28.8 EXTERNAL FAX/MODEM WITH VOICEMAIL

- External 28,800 (V.34) Fax/modem with voice mail
- Plug and Play, Microsoft Windows '95 compatible
- VoiceView Certified
- Caller ID Data (to capture phone numbers)
- FaxWorks and Talkshop software
- Remote message retrieval
- Alternating voice and data on a single call
- Lifetime Warranty
- Made in the USA

#254947

$197

ZOOM
28.8 BPS INTERNAL FAX/MODEM WITH V.34 V.FAST



- Internal Halfcard
- Compressed data Through put of 115,200 bps
- V.42 bis, and MNP 5 Data Compression
- V.42, MNP 2-4 and MNP10 error checking
- Complete with Windows and
- MS DOS communication software
- 7 Year Warranty
- Free Technical Support

#2024992

$149

Best Data
"Smart One" Internet 28.8 Internal FX/MD Value Pack

- Surf The Internet Applications, Guides, Services over 60 hours of FREE On-Line time
- V.34, V.42/MNP 2-4, V.42 bis/MNP 5 & 10 Hardware
- Free Technical Support
- 5 Year Limited Warranty

#93350

$149

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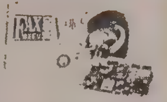
SMART ONE INTERNAL 14.4 FAX/ MODEM/VOICE MAIL



- 999 Mail Boxes with Remote Message Retrieval & Pager Notification
- V.32bis, V.42bis Fax Broadcasting, Fax on Demand, Fax Back, Fax Forwarding
- Cheyenne Windows S/W for Fax/ Data/Voice
- 5 Year Limited Warranty

#2061751

$49⁹⁹

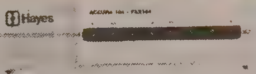
Hayes®
ACCURA INTERNAL 14,400 BAUD FAX/MODEM

- Free SmartCom Data and Fax Software
- Group 3 Fax
- V.42, V.42bis, MNP 2-5

08-01185
#1798197

$79⁹⁹

Hayes®
ACCURA EXTERNAL 14,400 BPS FAX/MODEM

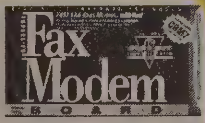


- Free SmartCom Data and Fax Software
- Group 3 Fax
- V.42, V.42bis, MNP 2-5
- Cables included

08-01174
#1798201

$99⁹⁹

14,400 BAUD INTERNAL FAX/MODEM



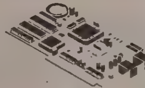
- GROUP 3 Compatible
- 16550 UART
- BITCOM and BITFAX S/W
- Supports up to Com 7 and IRQ-9
- 5 Year Warranty

#1930078

SIIG

$44⁹⁹

SUPRA 14.4 PLUG & PLAY FAX/MODEM



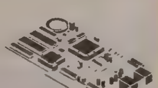
- Easy plug and play installation for Windows 95!!!
- 14,400bps data/14,400 bps fax
- 5 year limited warranty
- Automatically negotiates the best speed and protocol
- Send and receive faxes in the background

SUP-14XP-PNP
#2070948

Supra Corporation

$74

SUPRA 28.8 PLUG & PLAY FAX/MODEM



- Easy plug and play installation for Windows 95!!!
- 28000bps data/14,400 bps fax • Caller ID
- 5 year limited warranty • Complete Windows product
- Automatically negotiates the best speed and protocol
- Send and receive faxes in the background

SUP-28XP-PNP
#2079084

Supra Corporation

$139

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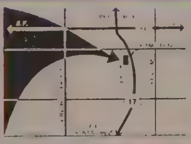

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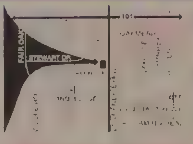

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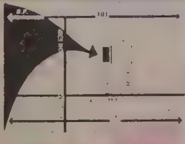

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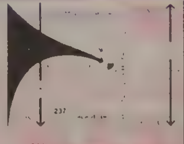

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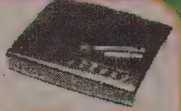
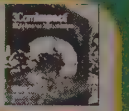
MOTOROLA BitSURFER PRO ISDN MODEM



Motorola's BitSURFER Pro ISDN modem is a high-speed terminal adapter that lets you access the power of ISDN for all you home and office communications. Four times faster than the fastest analog modem- 128,000 bps, Two analog device ports, Multilink PPP, Custom calling features, Simultaneous voice and data on a single ISDN line, Window 95 compatible.
#2093877

$369

ISDN EXTERNAL DIGITAL MODEM



The fastest digital modem technology. 128 kbps, four times faster than the fastest analog modems, simultaneous voice, data, fax. Windows 95 Compatible
#2090335

3Com

$379

PRACTICAL PERIPHERALS 14,400 BAUD INTERNAL FAX/MODEM

14,400 Baud Modem/Fax
Super High Speed V.32 BIS Protocol
Quick Link II communication Software
#1667912

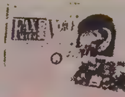
$69.99

PRACTICAL PERIPHERALS 14,400 BAUD MINI TOWER FAX/MODEM EXTERNAL

V.32 and V.42 Bis
Quick Link II Communication Software
#1757781

$87

Best Data "Smart One" Internel 28.8 Fax/Modem/Voice Mail



- 999 Mail Boxes w/Remote Message Retrieval & Pager Notification
- V.34, V.42 MNP 2-4, V.42 bis/MNP 5 & 10 Hardware
- Cheyenne Windows S/W for Fax/Data/Voice
- 5 Year Limited Warranty

#93330

$149

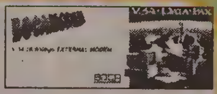
V.34 BOCA OFFICE COMMUNICATOR

- 28,800 V.34 Data/Fax with Professional Voice Mail
- Plug-and-Play & Windows 95 ready
- Voice View talkshop software
- Full Duplex (handsfree) speakerphone, Boardroom quality!
- On-Line and Internet Trial services included
- Fax on Demand, remote message retrieval and more...
- 5 year Warranty, Made in the USA!

#115594

$219

BOCAMODEM V.34 28,800 bps External Fax/Modem

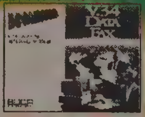


New International Standard
- 28,800bps Data Modem
- 14,400bps Send/Receive Group 3 Fax
- V.42bis Data Compression for Troughput Up to 115,200bps
- Backward Compatible with V.Fast Class (V.FC) and Lower Speed Modems
- Five Year Warranty

#1981878

$188

BOCAMODEM V.34 28,800 bps Internal Fax/Modem



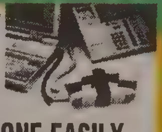
New International Standard
- 28,800bps Data Modem
- 14,400bps Send/Receive Group 3 Fax
- V.42bis Data Compression for Throughput Up to 115,200bps
- High-Speed 16C550 UART Serial Card on board
- Backward Compatible with V.Fast Class (V.FC) and Lower Speed Modems
- Five Year Warranty

#1981867

$168

Telecoupler II

High Speed Modem Coupler



CONNECTS A PORTABLE COMPUTER TO ANY TELEPHONE EASILY.

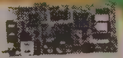
- Accoustic coupling with telephone handset
- Industry standard telephone to modem connector RJ-11
- Full or Half Duplex Communication Mode

#1847790

CP+

$109

INTERNAL 2400 BPS MODEM 9600 SEND 4800 RECIEVE FAX



Communication Software
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FULLY V.34 COMPLIANT

- Parallel Port Interface for true 28,800 bps throughput in Windows-Standard Serial
- 14,400 bps Group III Fax
- Compatible with 28,800 (V.34 and V.FC),14,400, 9600, 1200 and 300 bps modems
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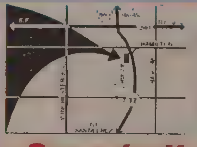

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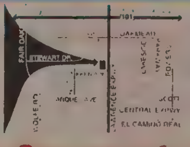

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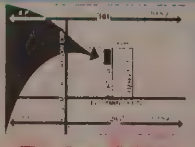

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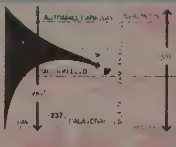

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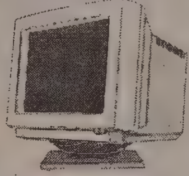

1280 X 1024

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SUPER VGA MONITOR

.28mm Dot Pitch • Digital Control • MPR-II

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15.7" ACTUAL VIEWABLE AREA FLAT SCREEN

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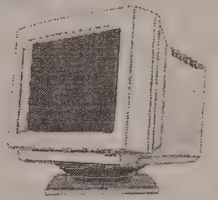

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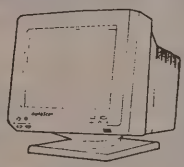

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NON-INTERLACED

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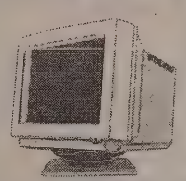

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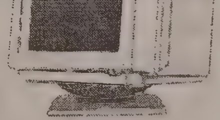

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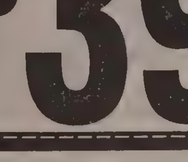

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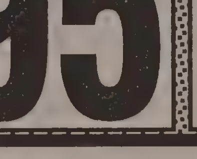

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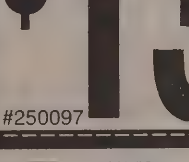

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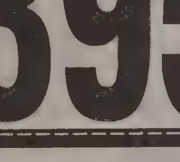

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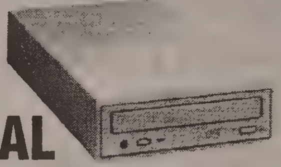

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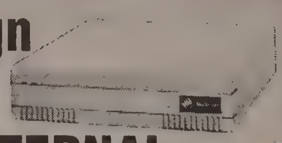

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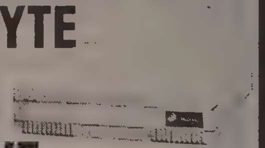

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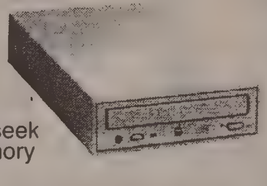

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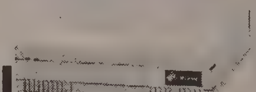

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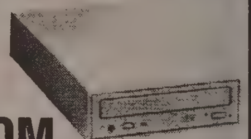

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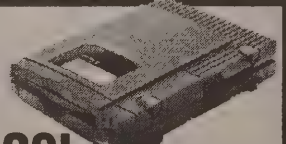

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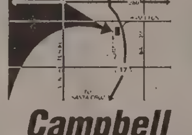

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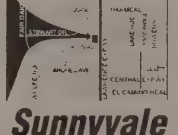

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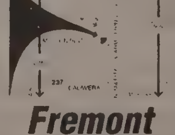

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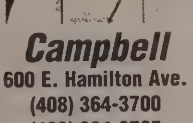

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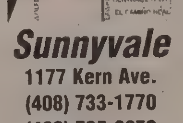

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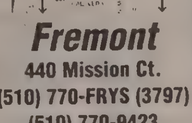

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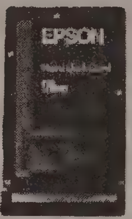

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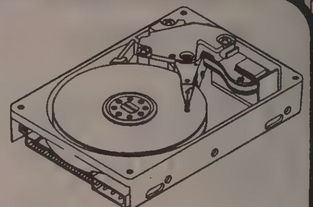

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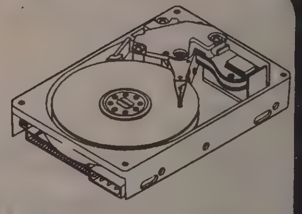

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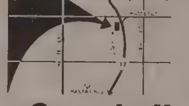

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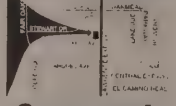

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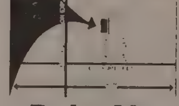

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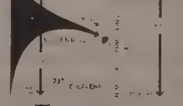

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- 64K Buffer
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- 12 msec Seek Time
- 3-Year Warranty
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- 128K Cache
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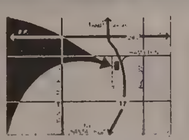

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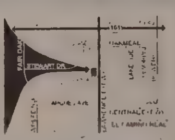

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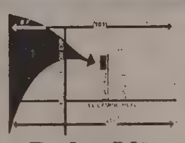

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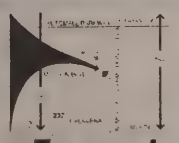

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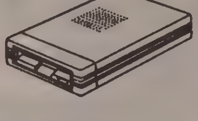

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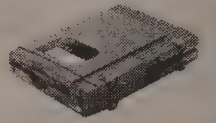

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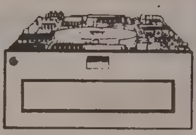

- Travan Technology
- QIC-80/Wide Comp.
- Windows® 95, WIN/DOS

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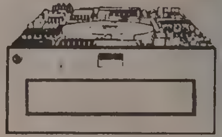

- Read/Write Compatibility w/ QIC 80/wide

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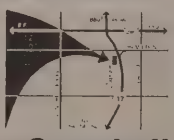

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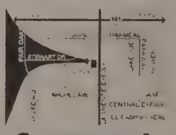

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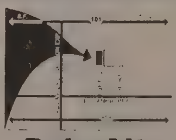

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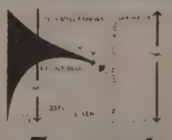

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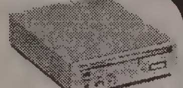

4X IDE CD-ROM DRIVE

- 600KB/sec Transfer Rate
- 240msec Average Access Time

$69.99

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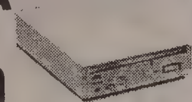

5302B 4 SPEED IDE CD-ROM

- Fast 150MS access time with a 600KB second transfer rate
- 256K Cache

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QUICK CD PORTABLE PARALLEL PORT QUAD-SPEED CD ROM DRIVE

- 600 KB/Sec. Transfer Rate
- 150 Millisecond Average Access Time
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- Plug and Play Installation
- Simply Connects to Printer Port

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3701B 6.7X SCSI CD-ROM DRIVE

- 135MS access time with 1000KB transfer rate
- 256KB data buffer

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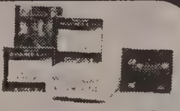
CREATIVE
CREATIVE LABS, INC.



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Quad-speed CD-ROM drive
- IDE interface for increased performance
- 600 KB/sec transfer rate
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- 680 MB data storage with 256 KB RAM buffer
- Multi-Session Photo CD compatible
- Bundled Software
- Grolier Multimedia Encyclopedia
- QuickCD

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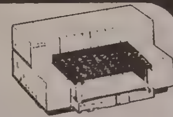

SureStore CD-Writer4020i Internal 650MB SCSI-2 5.25" Recordable CD Drive

- 650MB capacity
- 4X Read
- 2X Write
- 1MB Buffer
- SCSI-II Card
- 2 Blank CDs (Media)

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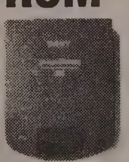
Discman CD-ROM PRD-150



PCMCIA Chart connection CD-ROM Discman
- MPC2 Performance
- 300KBPS Transfer Rate
- 380MS Access Speed
- Software Driver, Headphones, Interface Card, AC Adapter supplied

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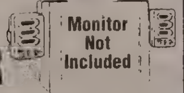
SPACE SAVING SOLUTION

SHIELDED COMPUTER SPEAKERS



Universal monitor mounts save space and bring speakers to ear level. Works with any Sound board. Bass Boost Switch Monitor Mount

CS-180
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Labtec

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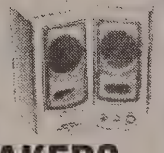
SRS-PC40 PERSONAL COMPUTER STEREO SPEAKERS



- Built-in amplifier (6 watt output)
- 80Hz-25KHz • Magnetically shielded design
- Two audio inputs mixing
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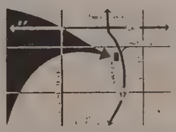

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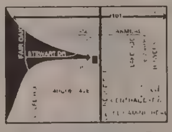

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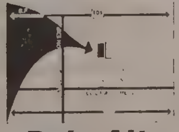

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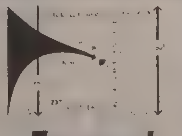

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Compatible with Teac CT600N and Maynard 90506
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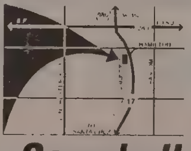

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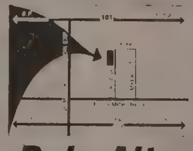

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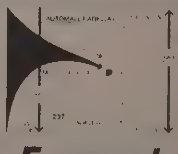

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PC/MAC VGA to NTSC Scan Converter

- See your PC/Mac picture on TV
- Simultaneous display on monitor or TV
- Supports Video, S-Video, RGB
- The Ultimate Scan Converter under $200

ANTEC
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GRAVIS ULTRA SOUND PLUG & PLAY

- Value-priced 16-bit wavetable sound card
- Full-duplex for Internet phone applications!
- Simultaneous record and playback
- 16 Stereo channels
- Automatic Windows® 95 Plug & Play setup
- Upgradeable to 8MB of RAM for custom sounds and stunning effects processing
- DAT-quality playback
- 32 Digital channels
- IDE CD-ROM interface
- 3 year warranty

$124

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GRAVIS ULTRASOUND PLUG & PLAY PRO

- Value-priced 16-bit wavetable sound card
- Ships with 512K on board D-RAM
- Full-duplex for Internet phone applications!
- Simultaneous record and playback
- 16 Stereo channels
- Automatic Windows® 95 Plug & Play setup
- Upgradeable to 8MB of RAM for custom sounds and stunning effects processing
- DAT-quality playback
- 32 Digital channels
- IDE CD-ROM interface
- 3 year warranty

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YAMAHA WAVEFORCE™ DB50XG

- Wave-Table Synthesis Upgrade Daughter Board
- Plugs easily into any sound card with a Waveblaster expansion port
- Upgrades current sound card from FM to wave-table synthesis
- 676 voices- 21 drum kits
- Features state of the art digital signal processing which creates unprecedented realism

$179

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TeleVideo MULTIMEDIA TeleWave Audio 32

- DSP based wave table & FM synthesis combo sound board.
- 32 simultaneous stereo voice polyphony and General MIDI standard support with 128 instruments
- 2MB of CD-quality sampled instruments sounds store in ROM
- Full Compatibility with all major sound standards including Sound Blaster, MPU 401, MT-32 and Windows Sound Systems.
- Built-in CD-ROM interface supports Sony, Mitsumi, Panasonic and IDE.
- Easy start installation.

$109.99

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TURTLE BEACH SYSTEMS TURTLE BEACH TBS-2000 SOUND CARD

- Window '95 Plug and Play
- Soundblaster Compatible
- 32-Voice Hardware, Wavetable Synthesis
- Enhanced EIDE CD-ROM Controller
- 128 Wavetable instument in 2MB ROM

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AITech POCKET SCAN CONVERTER

- Converts VGA to TV Signal
- Compact Design: easy to carry
- High quality video conversions supports up to 16 million colors
- Play PC games on TV
- Ideal for business presentations on the go
- Flicker reduction circuitry
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External VGA-to-video/TV encoder for your PC or MACINTOSH

- Record, edit or playback audio and video from your PC or Macintosh video output.
- Easy to use and easy to install-just plug and paly
- Supports up to 16.7 million (24-bit) colors with standard VGA (640x480) resolution.
- Dual display support cability (VGA monitor and TV/VCR simultaneously).

AITech

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Desktop Video Editing System for Windows

The video solution for real-time capturing, editing and playback of video. Includes Adobe Premiere for Windows.

- Capture digital VHS video to your hard disk
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- Now with crystal flying fonts pro

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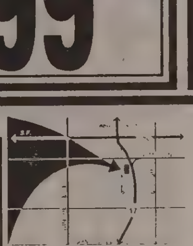

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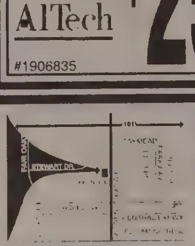

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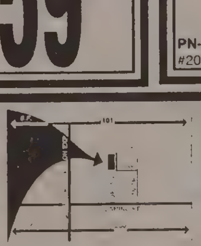

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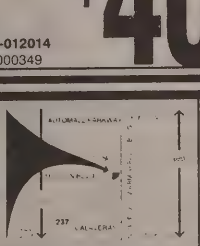

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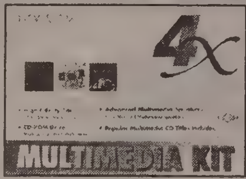
QUAD-SPEED MULTIMEDIA KIT



- Internal Quad-speed CD-ROM Drive - 600 Kbyte/sec transfer rate for exceptional multimedia performance
- 16-bit Sound Card - Sound Blaster PRO and Windows Sound System compatible; 48 watts PMPO
- 3" Desktop Speakers - 3" full range speakers enhance the multimedia experience
- Installation Kit - Complete with all cables, hardware, manuals, and instructions required
- 9 CD Titles and Utilities Included

$167

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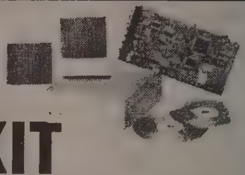
Sun Moon Star
QUAD-SPEED MULTIMEDIA KIT



Internal Quad-speed CD-ROM Drive

- 220ms access time • 600KB per second data transfer rate
- 128KB cache memory
- Motorized Tray • Speakers
- ESS 16-Bit Sound Card with IDE CD-ROM Interface
- 10 CD Titles including Groliers Multimedia Encyclopedia 1995

$179*

*After $30 Mail-In Rebate. In-Store Cost $209.00.

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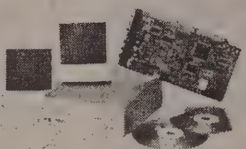
QUAD SPEED MULTIMEDIA KIT



- 4X IDE CD-ROM Drive
- Turtle Beach 16 bit sound card wavetable synthesizer upgradable
- Sound Blaster Compatible
- Multimedia Internet CD • Grolier's Multimedia Encyclopedia
- 50 great Shareware games on CD • Microsoft 8 Game CD
- Edutainment CD Deluxe (Chessmaster, Mavis Beacon Teaches Typing, U.S. Atlas and World Atlas)
- 4 Watt Stereo Speakers.

$237

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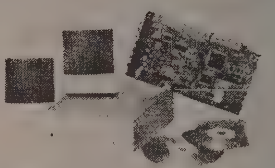
6-SPEED MULTIMEDIA KIT



- Internal 6-Speed CD-ROM Drive - 900 Kbyte/sec transfer rate for exceptional multimedia performance
- 16-bit Sound Card - Sound Blaster PRO and Windows Sound System compatible; 48 watts PMPO
- 3" Desktop Speakers -
- Electret Microphone -
- Installation Kit - Complete with all cables, hardware, and manuals
- 9 CD titles and utilities, including Compton's Interactive Encyclopedia, PLUS
- Internet Titles plus NetPhone software for phone conversations with other Internet users worldwide

$209.99

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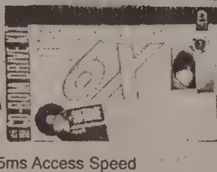
6-SPEED MULTIMEDIA KIT



- 6X CD-ROM drive (IDE)~195ms Access Speed
- 900 KB Transfer Rate and up to 256 KB Buffer
- 16 Bit Sound Card, Wavetable Synthesizer Upgradable
- Sound Blaster™ Compatible
- Windows95 Compatible
- TwoYear Warranty
- 4W Stereo Speakers
- Includes large variety of games and other software

$269

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DIAMOND
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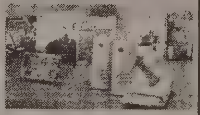
MULTIMEDIA KIT 8000



Super fast eight-speed CD-ROM drive with 1.200KB/second transfer rate and 240ms access time • 16-bit. 1MB wavetable Diamond sound card with 3D sound support • Plug &Play ready for Windows 95 • 5 hot software titles including Myst™ Magic Carpet™. Rebel Assault™. Sim City 2000™. and Compton's Interactive Encyclopedia™ 1996 • Yamaha stereo speakers • Six additional software utilities for sound recording, editing and playback capabilities Several tools for installation ease.

Free Installation

$459

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TURTLE BEACH SYSTEMS

8 SPEED Multimedia Kit

8X
MULTIMEDIA CD-ROM KIT

- 8X CD-ROM drive (IDE)-195ms Access Speed
- 1200 KB Transfer Rate and up to 256 KB Buffer
- 16 Bit Sound Card,Wavetable Synthesizer Upgradable
- Sound Blaster™compatible
- Windows 95 compatible
- Two year warranty
- 4W Stereo Speakers
- 12 CD Titles + 50 Shareware

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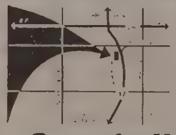

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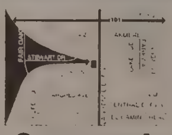

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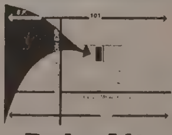

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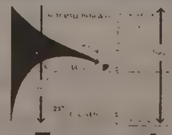

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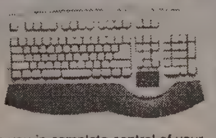

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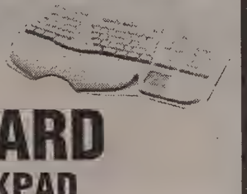

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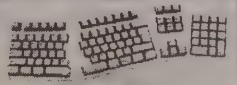

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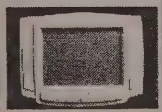

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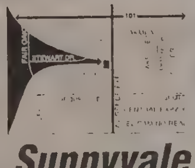

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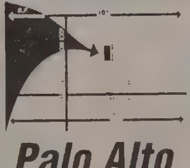

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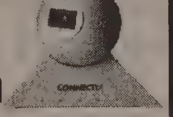

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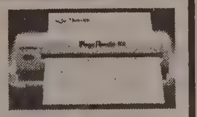

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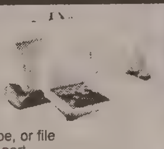

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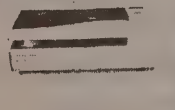

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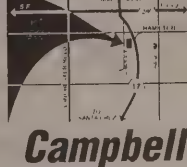

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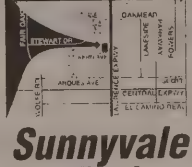

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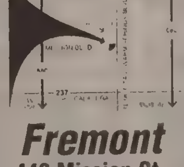

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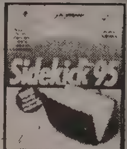

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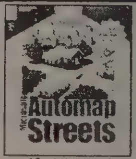

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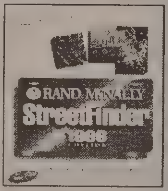

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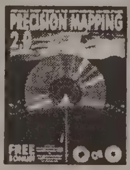

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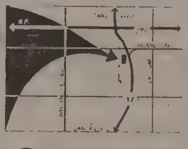

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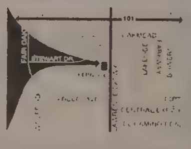

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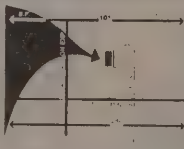

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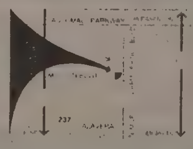

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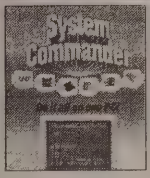

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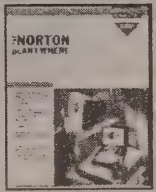

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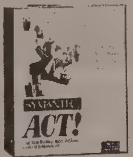

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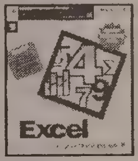

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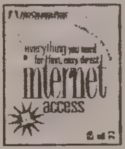

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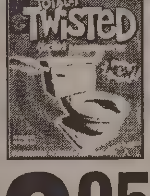

The Totally Twisted After Dark Screen Saver includes:
-13 fully-animated, totally twisted displays with dozens of custom options.
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-WallZapper™ turns any Totally Twisted After Dark display into your desktop background.

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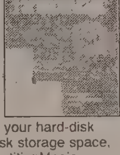
PartitionMagic Version 2.0

Make Hard Disk Hassles Disappear with PartitionMagic 2.0



PartitionMagic 2.0 gives you the power to optimize, organize, and secure your hard disk like never before. With the wave of a mouse, you can: Dynamically resize your hard-disk partitions and inefficient FAT clusters, recover hidden disk storage space, organize your hard drive, and protect sensitive data. PartitionMagic eliminates the need for perilous utilities like FDISK and FORMAT while ensuring your data- and your schedule- doesn't go up in smoke. It's hard-disk magic you'll use again and again.

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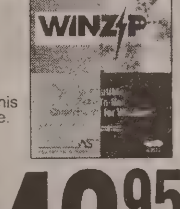

The familar Windows interface makes this program easy to learn and easier to use. Compress and extract files in seconds. View a file by simply double clicking to see if it's the file you want. WinZip is 100% PKZIP compatible.

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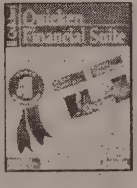

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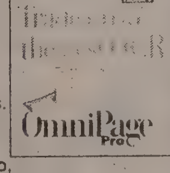

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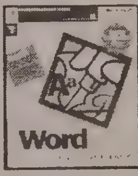

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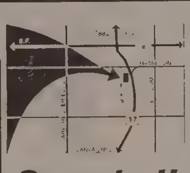

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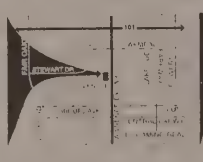

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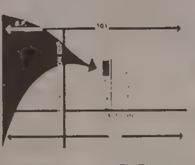

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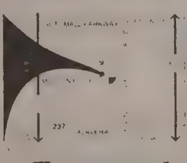

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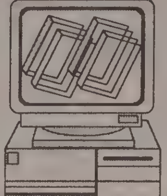

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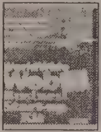

The World Wide Start-up Kit gives you five completeresources at one low price. With expert advice, professional techniques, and troubleshooting tips, you'll have all the tools you need to make your presence on the Web and watch your profit levels soar.

- A collection of the best freeware, shareware, and public-domain software available-for PC, Macintosh®, and UNIX workstations-for creating, editing, and managing HTML documents
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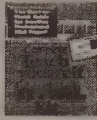

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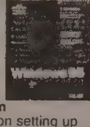

Six powerful resources for maximizing

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  Extensive troubleshooting information on setting up and customizing Windows 95.
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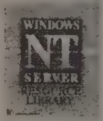

These comprehensive references and the companion CD-ROM provide detailed explanations and step-by-step instructions on setting up and managing Windows NT server:

- Inside Windows NT Server
- Windows NT Server Professional Reference
- Building a Windows NT Internet Server
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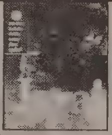

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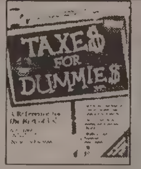

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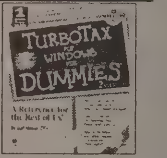

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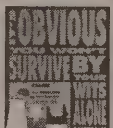

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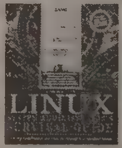

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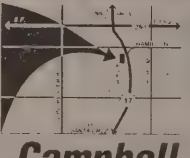

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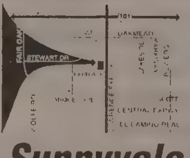

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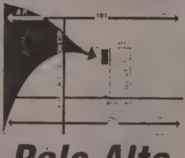

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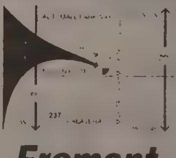

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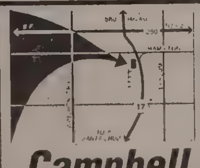

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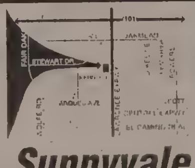

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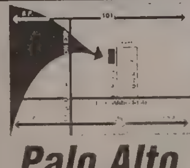

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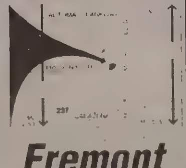

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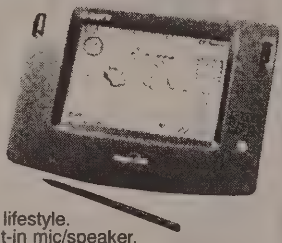

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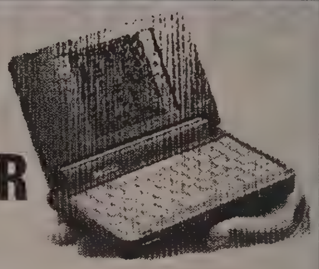

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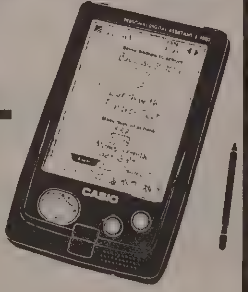

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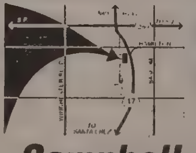

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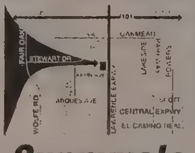

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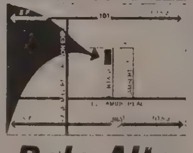

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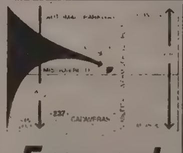

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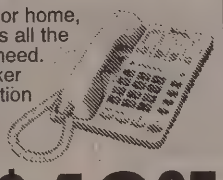

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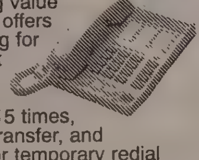
Panasonic
SPEAKERPHONE

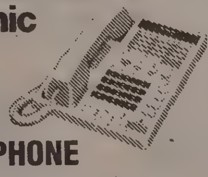


This outstanding value from Panasonic offers one-touch dialing for up to 28 16-digit telephone numbers, auto redial for up to 15 times, redial memory transfer, and a save button for temporary redial memory storage for only...

$59^95

Model KX-T2355
#1287186

Panasonic
TWO LINE SPEAKERPHONE



A perfect compliment to your home or office, this two-line speakerphone comes equipped with 3-way conferencing, 20 number programmability, separate ring switches for each line, and a local mode function. Now only...

$69^95

Model KX-T3110
#1505313

900MHz EXTENDED RANGE CORDLESS PHONES

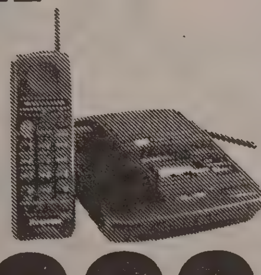
Panasonic
30 CHANNEL PALM-SIZED EXTENDED RANGE 900MHz CORDLESS PHONE

This Panasonic 900MHz cordless phone features a unique palm-sized design with lighted keypad, 30 channel access, high gain rubber antenna, reversible handset, sound charger, noise reduction technology, and more, all for just....

$199^95

MODEL KX-T9500
#1948839

Panasonic
900MHz PALM-SIZED CORDLESS PHONE WITH ALL DIGITAL ANSWERING MACHINE



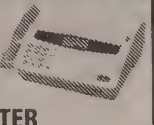
Panasonic's highly anticipated 900MHz cordless phone with all digital answering machine is finally here and it was well worth the wait! It's compact base and palm-sized handset make this the perfect addition to any home or office. Features include 10 number memory, 30 channel AutoScan, 3 personal mailboxes, 2-way/memo recording, intercom with 2-way paging, pager call, message scan (scans the first few seconds of each message), and much more. Now just...

$329

MODEL KX-T9550
#2068220

FAX MACHINES

Panasonic
FAX MACHINE WITH PAPER CUTTER AND SPEAKERPHONE

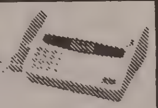


Panasonic line of fully featured fax machines start with this compact model which includes 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just...

$279

Model KX-F550
#1944271

Panasonic
FAX MACHINE WITH PAPER CUTTER, SPEAKERPHONE AND ALL DIGITAL ANSWERING MACHINE

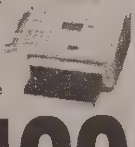


Panasonic line of fully featured fax machines includes this compact model which with 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just...

$344^98

Model KX-F750
#1944282

Panasonic
PLAIN PAPER FAX



From the new line-up of Panasonic fax machines comes this fully-featured unit with 250 sheet paper capacity and adjustable letter/legal tray, a 15 page document feeder, 64 level halftones, reduction/enlargement copier functions, hands-free speakerphone, 60 number speed dialer, activity reporting, handset volume control, and a whole lot more! Now just...

$429

Model KX-F1000
#2068275

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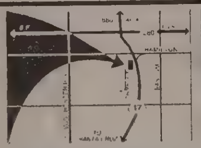

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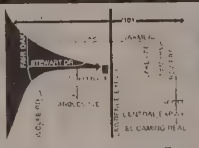
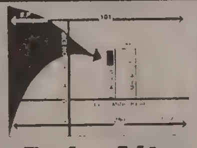
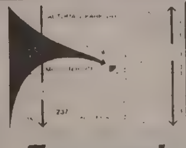
(408) 364-3765



Sunnyvale
1177 Kern Ave.
(408) 733-1770
(408) 735-6950



Palo Alto
340 Portage Road
(415) 496-6000
(415) 496-6044



Fremont
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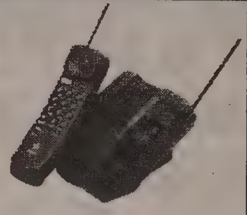
900 MHz EXTENDED RANGE CORDLESS PHONES

GENERAL ELECTRIC
GE. We bring good things to life



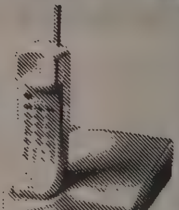
100 CHANNEL AUTO SCAN 900 MHz CORDLESS PHONE

By combining 100 channel auto scan (which allows the phone to lock-on-to the channel that is getting the clearest signal) and 900 MHz crystal clear technology (for improved clarity and extended range), GE has developed the ultimate cordless phone! Other features include 10 number memory, page/find from base to handset, handset volume control, distinctive ring, and more. An excellent value at....

$149.99

MODEL 2-9910 #1923425

uniden



40 CHANNEL 900MHz CORDLESS PHONE

Uniden's latest 900MHz cordless phone gives you unparalleled range and performance along with premium features that include 40 channel selection, call monitor, 2-way/hands-free intercom, 10 number memory, mute, last number redial, flash, and much more, all for just....

$148.99

MODEL EXP-901
#1965005

SONY.

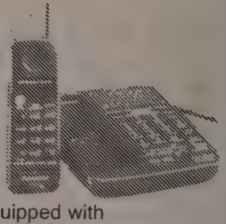
40 CHANNEL 900 MHz CORDLESS SPEAKERPHONE

By combining 900MHz Enhanced Reception with a 40 Channel Auto Scan system, Sony has designed a cordless phone that not only provides clearer transmission with less noise and interference than conventional 46 to 49 MHz cordless phones, but also gives you enhanced channel selection resulting in greater flexibility if you encounter interference during a call. With 2-Way Paging/Intercom, Base Speakerphone, 3-Way Conversation, 20 number memory, last number redial, flash, and more. Sony has designed the perfect cordless phone for the home or office at only...

$179.99

MODEL SPP-ER1
#1839009

Panasonic



900MHz CORDLESS DUAL KEYPAD SPEAKERPHONE

This palm-sized 900MHz cordless phone comes equipped with dual keypad speakerphone for handsfree operation, 30 channel autoscan, intercom with 2-way paging, 20 number memory, a dual battery charging system, flash, hold, and last number redial. An excellent addition to any home or office at..

$239.97

MODEL KX-T9520
#2068219

AT&T

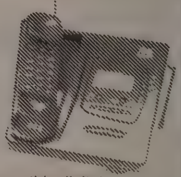
DIGITAL 900MHz DUAL KEYPAD CORDLESS SPEAKERPHONE

AT&T, the leader in digital telephone technology once again leads the way into the future with the introduction of this 900MHz cordless phone. By operating at the 900 MHz frequency range rather than the conventional 46 to 49 MHz range, this AT&T cordless phone will provide clearer transmission with less noise and interference from other electronic devices, as well as extended range performance! Features include 10 number memory, mute, hold, flash, last number redial, one-way paging, out-of-range-indicator, digital voice encryption, and much more for only....

$229.97

MODEL 9120 #1853261

VTECH



DIGITAL 900MHz CORDLESS PHONE
WITH 30 MINUTE ALL DIGITAL ANSWERING MACHINE

If you want premium performance in a cordless phone look no further than this digital 900MHz Cordless phone with 30 minute digital recording capability and 4 programmable voice mailboxes! Beside the extended range and improved clarity over traditional 49Mhz cordless phones, this model also offers handset volume control, ~~10~~ number memory, low battery and out-of -range indicator, one-way paging, programmable ring, mute, flash, as well as, message skip and repeat (for immediate access to the next or previous message without having to wait for a tape to rewind or fast forward), and a whole lot more! An excellent value at...

$279

MODEL 900i #2072021

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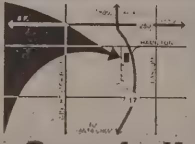

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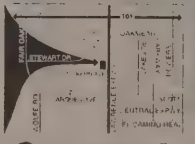

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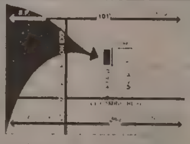
(408) 735-6950



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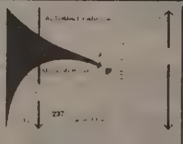
(415) 496-6044



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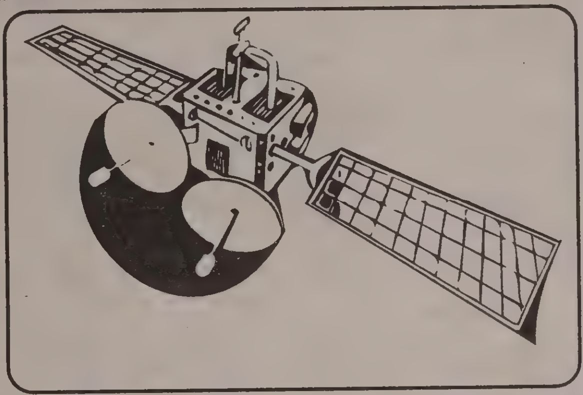


DSS™
DIGITAL SATELLITE SYSTEM

DIRECTV

JUST A SAMPLE OF WHAT'S AVAILABLE!

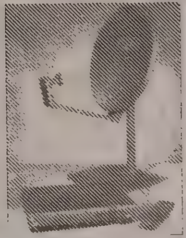
Discovery ESPN C-SPAN CARTOON NETWORK TRIO TNT TNN CNN INTERNATIONAL CNBC COURT The Disney Channel USA NETWORK CNN E! Touchstone Pictures TRAVEL TBS MIRAMAX UNIVERSAL TRI-STAR PICTURES HOLLYWOOD PICTURES CMT A&E COLUMBIA PICTURES C-SPAN2 Walt Disney Pictures

USSB

USSB OFFERS

5 HBO CHANNELS
3 SHOWTIME CHANNELS
2 "THE MOVIE" CHANNELS
3 CINEMAX CHANNELS AND MORE

Multi Channel HBO MTV SHOWTIME EAST WEST SHOWTIME 2 VH1 THE MOVIE CHANNEL Multi Channel Cinemax ALL NEWS LIFETIME FLIX NICK AT NITE COMEDY



RCA

DIGITAL SATELLITE SYSTEM (DSS) DISH AND RECEIVER

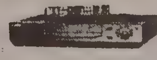
Enjoy over 175 channels of top-notch entertainment with the crystal, digital clarity of the new RCA DSS system. CD quality sound and over 400 lines of video resolution, provide an incredible entertainment experience. Let Fry's and RCA help you drive on the Information Superhighway!!!
*System price does not include monthly programming fees starting a $29.95 plus additional charges for pay-per-view movies and events.

$499

MODEL DS-1120WR
#1942578

SONY.

DIGITAL SATELLITE SYSTEM (DDS) DISH AND RECEIVER



Sony's new DSS system is compatible with more than 175 channels of DirecTV and USSB programming. CD quality sound and over 400 lines of digital video resolution work together to give an outstanding home theatre experience. **Other features include Sony's signalseeker LED** for easy install and a universal remote.*System price does not include monthly programming fees starting a $29.95 plus additional charges for pay-per-view movies and events.

$647

MODEL SAS-BS1
#2026112

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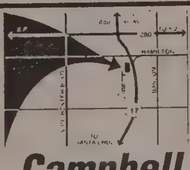

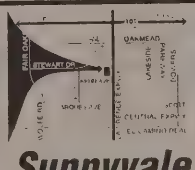

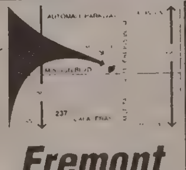

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Insights *continued from page 18*

MicroTimes Stock Index On A Bullish Run

EXCH	COMPANY	TICKER SYMBOL	CLOSING PRICE 01/22/96	CLOSING PRICE 02/14/96	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL DIVIDEND RATE	ANNUAL DIVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE										
OTC	Adobe	ADBE	38.75	37.06	-1.69	-4.35	29	0.20	0.54	74.25	30.00
OTC	Autodesk	ACAD	30.50	37.00	6.50	21.31	24	0.24	0.65	53.00	27.75
OTC	Borland	BORL	15.50	20.06	4.56	29.44	-	0.00	0.00	20.63	7.13
OTC	Informix	IFMX	31.50	30.75	-0.75	-2.38	40	0.00	0.00	34.38	16.63
OTC	Microsoft	MSFT	92.00	98.75	6.75	7.34	34	0.00	0.00	109.25	59.50
OTC	Novell (L)	NOVL	13.13	13.50	0.38	2.86	15	0.00	0.00	23.25	12.00
OTC	Oracle (H)	ORCL	46.00	51.19	5.19	11.28	47	0.00	0.00	51.50	28.00
OTC	Software Publishing	SPCO	2.81	3.00	0.19	6.67	-	0.00	0.00	5.13	2.19
OTC	Symantec	SYMC	11.25	13.13	1.88	16.67	-	0.00	0.00	33.25	9.88
	HARDWARE										
OTC	Apple (L)	AAPL	30.50	27.63	-2.88	-9.43	21	0.48	1.74	50.13	26.84
OTC	AST Research (L)	ASTA	8.75	7.50	-1.25	-14.29	-	0.00	0.00	19.13	7.38
NYS	Compaq	CPQ	48.25	49.88	1.63	3.37	17	0.00	0.00	56.75	31.13
NYS	Digital Equipment (H)	DEC	67.50	70.50	3.00	4.44	26	0.00	0.00	76.50	31.50
OTC	Dell	DELL	26.63	31.38	4.75	17.84	12	0.00	0.00	49.38	19.88
NYS	Hewlett-Packard	HWP	80.75	88.50	7.75	9.60	19	0.80	0.90	96.63	52.38
NYS	IBM (H)	IBM	102.25	114.25	12.00	11.74	11	1.00	0.88	115.88	73.75
NYS	Silicon Graphics	SGI	27.75	26.75	-1.00	-3.60	21	0.00	0.00	45.63	21.13
OTC	Sun Microsystems	SUNW	48.56	47.50	-1.06	-2.19	21	0.00	0.00	51.50	15.00
NYS	Xerox	XRX	141.38	130.75	-10.63	-7.52	-	3.48	2.66	144.63	107.25
NYS	Tandy	TAN	38.38	43.50	5.13	13.36	14	0.80	1.84	64.38	34.13
	CPU'S										
NYS	Advanced Micro Devices	AMD	19.25	20.25	1.00	5.19	7	0.00	0.00	39.25	16.13
OTC	Intel	INTC	52.00	58.00	6.00	11.54	14	0.16	0.28	78.38	38.38
NYS	LSI Logic	LSI	26.00	32.75	6.75	25.96	18	0.00	0.00	62.50	22.50
NYS	Motorola	MOT	53.13	55.75	2.63	4.94	19	0.40	0.72	82.50	44.75
	COMMUNICATIONS										
NYS	AT&T	T	64.63	67.25	2.63	4.06	-	1.32	1.96	68.88	47.88
NYS	BellSouth Corp.	BLS	40.63	41.50	0.88	2.15	26	1.44	3.47	45.88	28.25
OTC	MCI (H)	MCIC	27.81	30.00	2.19	7.87	38	0.05	0.17	31.00	19.09
NYS	Northern Telecom (H)	NT	43.75	50.38	6.63	15.14	27	0.44	0.87	50.88	31.50
NYS	Pacific Telesis	PAC	28.75	31.50	2.75	9.57	13	2.18	6.92	35.25	25.63

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	22
DECLINES	7
UNCHANGED	0
NEW HIGHS	5
NEW LOWS	3

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	IBM	$	12.00
LARGEST DOLLAR LOSER	Xerox	$	-10.63
LARGEST PERCENTAGE GAINER	Borland		29.44 %
LARGEST PERCENTAGE LOSER	AST Research		-14.29 %

	CLOSE 01/22/96	CLOSE 02/14/96	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	7157.50	7647.58	490.07	6.85
DOW JONES INDUSTRIAL AVERAGE	5219.36	5579.55	360.19	6.90
STANDARD & POOR'S 500 INDEX	613.40	655.58	42.18	6.88
N.Y.S.E. COMPOSITE	328.70	349.35	20.65	6.28
NASDAQ COMPOSITE	1029.44	1088.03	58.59	5.69

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
07/05/95	7437.77	4615.23
08/02/95	7501.51	4665.85
08/30/95	7787.50	4604.57
09/27/95	7831.95	4762.35
10/24/95	7807.96	4783.66
12/13/95	7945.37	5216.47
01/22/96	7157.50	5219.36
02/14/96	7647.58	5579.55

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Technology stocks have rebounded for the second month in 1996. Specifically, the MicroTimes Stock Index rallied 490.07 points, or 6.85%, to close at 7647.58 for the month ended February 14, 1996. In similar fashion, the Dow Jones Industrial Average gained 360.19 points, or 6.90%, to 5579.55, while the S&P 500 Index rose 42.18 point s, or 6.88%, to close at 655.58.

The MT Index read as follows: advancing issues towered over declining issues by a 22-to-7 count, and there were five new 52-week highs vs. three new 52-week lows.

Turning to the stocks in the MicroTimes Index:

An hour after President Clinton signed the telecommunications bill, AT&T Corp. announced a plan to offer packages of local, long distance, wireless, online, and entertainment services. AT&T will seek permission to offer local calling in all 50 states by March 1, first by reselling the lines of the Baby Bells themselves. The passing of the bill puts at stake the $70 billion long distance market dominated by AT &T, MCI Communications Corp., and Sprint Corp., along with the $90 billion local telephone market dominated by seven regional Bells and GTE Corp. Last month, shares for AT&T rose 2.63 points, or 4.06%, to close at $67.25.

International Business Machines offered $47.50 per share for Tivoli Systems and its subsidiary, Tivoli Management Environment. The total valuation of the offer is $743 million after taking out Tivoli's cash. The directors and officers of the Austin, Texas-based Tivoli have agreed to sell their shares to IBM. For the month, IBM rallied 12.00 points, or 11.74%, to close at $114.25, making it the largest dollar gainer in our index.

Apple Computer has suspended its quarterly dividend to shareholders for the first time ever. The company also said that it expects an operating loss during the current quarter ending March 29 to "significantly exceed" the $69 million loss in the prior quarter. Analysts say it may take two or more quarters for Apple to return to profitability under its new CEO, Gilbert F. Amelio. Dr. Amelio joins Apple from his previous post as Chairman and CEO of National Semiconductor Corp. Last month, shares for Apple Computer slipped 2.88 points, or 9.43%, to close at $27.63.

Borland International emerged as the largest percentage gainer in our index as it rose 4.56 points, or 29.44%, to close at $20.06. The company released a beta version of the only graphical debugger for Java applications. With the debugger , software programmers can easily detect and fix bugs in their Java code by clicking on an error message and going directly to the line of Java code that caused the error. ■

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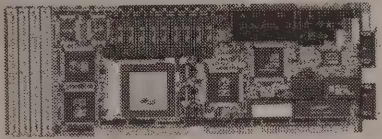

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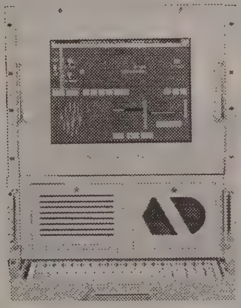

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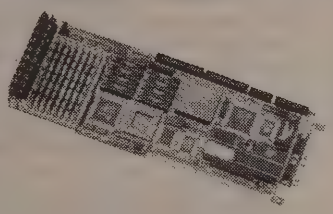

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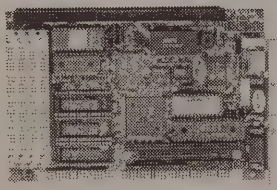
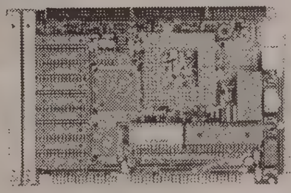


AP-410A 486 ALL-IN-ONE SBC

- Half Sized 80486SX/DX/DX2/DX4
- 2x72 Pin, 8x32 Pin SIMM (1-64 MB)
- AMI BIOS, 256K Cache
- Built-in 2xIDE, FDC, 2S & 1P
- Watchdog timer 0.5-5 sec.
- Onboard Keyboard & Ext Power
- Dimensions 185x122mm



AP-300A AIO 386 SX SBC

- Half Sized 80386 SX-40
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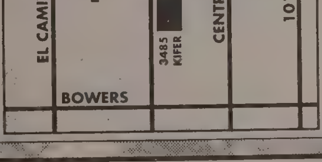

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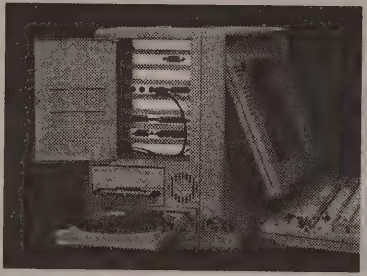

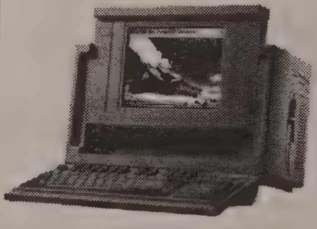

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OS/2 *continued from page 68*

1.7 times faster than at 14,400—but not exactly bad either.

Conclusions

On the one hand, you will not get the maximum performance with V.34 modems. On the other, performance is not too bad given so many inhibitors, and there seem to be no differences between V.34 modems, which suggests that inhibition does not lie with them.

In general, do not bother too much customizing for performance, unless you run into debilitating problems like data loss, disconnections, or visibly slow performance. Only those users heavily involved in high-volume data transmissions over long distance or international connections can benefit significantly from squeezing the best possible performance from their settings. Otherwise, the hassle is hardly worth it.

(I would like to thank John Jerrim, Rick Wilkes, and Wayne Fulton for their help with this article). ■

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RESOURCES:

OS2CIM v2.01, freeware
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Fax: (301)387-7322
CompuServe: 74020,10

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IRQInfo PRO v2.0, $37.95 (shareware)
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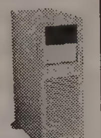

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101 Enhanced Keyboard
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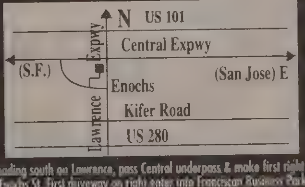

Heading south on Lawrence, pass Central underpass & make first right on Enochs St. First driveway on right enter into Franciscan Business Park.

Small Office/Home Office

continued from page 74

Traveling Software. I thought I would give them a call to see what they were up to these days.

After a pleasant conversation with their publicist, I received a review copy of the newest version of LapLink. It is no longer just a utility to move files to and from a laptop, though it is still good at that task. It is now designed to work with all sorts of Windows 95 and Windows 3.x computers.

LapLink is now a multidisk system that allows you to transfer files at high speed between any two machines that are both running the software.

It has the ability to transfer files at 115,000bps. I was able to transfer almost all of my files within a short hour. The file transfer was smooth and without event. LapLink uses compression tools and a send-only-the-changes technique to speed file traffic.

You turn it on and it works, without giving you the chance to explore the options menu or test the deepest layer of preferences. Good software is like that: boring, almost, in its reliability.

The most common choices are arrayed in a set of buttons across the top of the LapLink screen. To connect by cable, click on the icon of a cable connection. To connect by telephone, you can choose the icon of the modem, or the icon of the modem which is linked to a network. To use a network to which you are already connected, you can choose the network-only icon, or you can use a wireless system.

Many years ago, when portable computing involved 8 and 16K machines from Tandy, there was a company that always had a solution. It was Traveling Software. I thought I would give them a call to see what they were up to these days.

File transfer is valuable. But you can do other things with LapLink. I installed the product on the Windows 95 desktop machine that will soon be the main provider here, on the old 33MHz that is soon to leave, and on our Windows 3.1 portable as well. LapLink can tell if it is running in a Windows 3.1 environment or under Windows 95, and it adjusts itself accordingly. Then I dialed from the desktop to the portable, using the house's two telephone lines.

Things got a little more eventful. The first time, LapLink announced huffily that the portable was not available. The second time it just did not connect, but went into a general protection fault that crashed LapLink. On the third try, with nothing changed, it connected just fine. A second series of tests the next night gave essentially the same results: no connection a couple of times, one GPF crash, and eventual mysterious success. Perhaps it is our noisy telephone lines—but I think I must put it down to mysterious doings in the software itself.

When it was connected at last, it was a dream to operate. File transfers were possible, just as by cable. They are of course slower. When connected by cable, the two machines are speaking at over 115,000bps. When connected by modem, they were poking along at 2400 baud, the maximum speed of the little portable's modem.

I was therefore amazed to see how well the remote control worked. One can not only move files between computers, one can also remotely operate the other machine. A complete image of the other computer's screen comes up in the LapLink window. The remote computer responds to mouse clicks and typed commands as well. I ran a program on the remote device that produced graphic output, and found that even at 2400 baud the picture appeared with relative alacrity on my screen.

The third option, in addition to file transfer and remote control, is chat. You can talk with a remote user on a network, at the end of a cable, or by modem through LapLink's built-in chat facility.

One obvious use is for a help desk—an end-user who has trouble gets in touch with the help desk on the network. The help-desk personnel use remote control to solve the problem, and chat to explain the solution. That is a corporate use. More modestly, a small business can use the chat window to exchange information verbally while file transfer goes on in the background.

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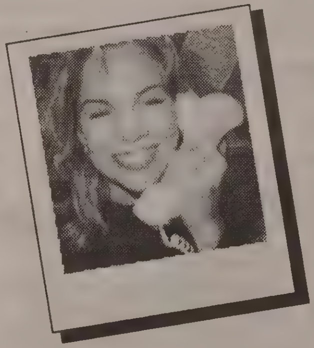

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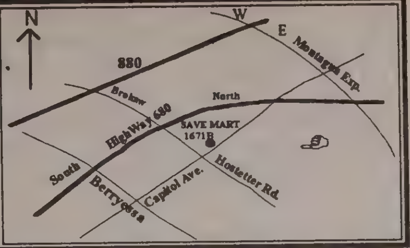

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Intel Endeavor P5-100/256K Pipelined PCI	425
Intel Endeavor P5-90/256K Pipelined PCI	420
Intel Endeavor P5-75/256K Pipelined PCI	330
Intel Zappa P5-133/256K PCI	509
Intel Zappa P5-120/256K PCI	440
Intel Zappa P5-100/256K PCI	385
Intel Zappa P5-90/256K PCI	380
Intel Zappa P5-75/256K PCI	295
Intel Triton P5- 166/256K Pipelined	790
Intel Triton P5- 150/256K Pipelined	593
Intel Triton P5- 133/256K Pipelined	480
Intel Triton P5- 120/256K Pipelined	408
Intel Triton P5- 100/256K Pipelined	350
Intel Triton P5- 90/256K Pipelined	345
Intel Triton P5-75/256K Pipelined	260
486DX4-120/256K AMD	165
486DX4-100/256K VLB AMD / INTEL	145/170
486DX2-80/256K VLB AMD	125
486DX2-66/256K VLB AMD/INTEL	120/160
486DX-33/256K VLB INTEL	110

BEST BUY SYSTEM MULTIMEDIA

Intel Atlantis P5-166/256K Pipelined PCI	1,800
Intel Atlantis P5-150/256K Pipelined PCI	1,600
Intel Atlantis P5-133/256K Pipelined PCI	1,485
Intel Atlantis P5-120/256K Pipelined PCI	1,418
Intel Atlantis P5-100/256K Pipelined PCI	1,365
Intel Atlantis P5-90/256K Pipelined PCI	1,355
Intel Atlantis P5-75/256K Pipelined PCI	1,265
Intel Endeavor P5- 166/256K Pipelined PCI	1,750
Intel Endeavor P5- 150/256K Pipelined PCI	1,541
Intel Endeavor P5- 133/256K Pipelined PCI	1,435
Intel Endeavor P5- 120/256K Pipelined PCI	1,358
Intel Endeavor P5- 100/256K Pipelined PCI	1,305
Intel Endeavor P5- 90/256K Pipelined PCI	1,295
Intel Endeavor P5- 75/256K Pipelined PCI	1,215
Intel Zappa Triton P5- 133/256K PCI	1,447
Intel Zappa Triton P5- 120/256K PCI	1,380
Intel Zappa Triton P5-100/256K PCI	1,327
Intel Zappa Triton P5- 90/256K PCI	1,317
Intel Zappa Triton P5- 75/256K PCI	1,237
Intel Triton PENTIUM 166/256K Pipelined	1,706
Intel Triton PENTIUM 150/256K Pipelined	1,505
Intel Triton PENTIUM 133/256K Pipelined	1,397
Intel Triton PENTIUM 120/256K Pipelined	1,320
Intel Triton PENTIUM 100/256K Pipelined	1,268
Intel Triton PENTIUM 90/256K Pipelined	1,262
Intel Triton PENTIUM 90/256K Pipelined	1,172
486DX4-120/256K AMD	1,082
486DX4-100/256K VLB AMD / INTEL	1,062/1,082
486DX2-80/256K VLB AMD	1,037
486DX2-66/256K VLB AMD/INTEL	1,032/1,072
486DX-33/256 VLB INTEL	1,022

SYSTEM CONFIGURATION

- * MotherBoard w/256 KCache
- * 8 MB RAM installed
- * TEAC 1.44 Floopy Drive
- * **540 MB IDE Hard Drive**
- * EIDE VLB w/I/O (PCI for Pentium)
- * Cirrus Logic SVGA VLB w/ 1MB
- * Spider Lynx 64 PCI w/1MB (For Pentium)
- * IDE PCI BUILT-IN I/O 16550 (For Pentium
- * 14" SVGA .28 Non-in Color Monitor
- * Mini Tower Case w/230W P.S.
- * 101 keyboard
- * Mouse w/ Mouse Pad
- * 4x CD-ROM
- * ACTION Stereo Sound 16
- * 100 Watt Speakers
- * Free CPU Cooling Fan

UPGRADE	ADD
1.0 GB IDE	60
1.20 GB IDE	80
256 Pipelined Burst	30
Mid Tower Case	25
Full Tower Case	40
Microsoft Mouse	15
Logitech Mouse	15
15" Monitor / 17"	90/350
1MB DRAM VIDEO	35
Diamond St 64 w/1MB	50

WINDOWS 95
FULL VERSION ONLY $92
with system purchase. Free installation

SPECIAL

PENTIUM 120 MHz
4x MULTIMEDIA
Intel ENDEAVOR
PCI 256K Pipelined Burst.

- Pentium 120 MHz Intel CPU
- 16 MB RAM 72 pin
- EIDE PCI w/I/O 16550 built-in
- 1.2 GB IDE Hard Disk
- TEAC 1.44 Floppy Drive
- Diamond Stealth 64 PCI w/ 2MB
- 15" .28 Flat Screen Non-In
- Medium Tower Case w/ 230 Watt
- Keytronic win 95 Keyboard
- Microsoft Serial Mouse w/ Pad
- 28.800 Fax Modem internal
- TOSHIBA 4X - Speed CD-ROM
- Creative Lab Sound Blaster 16
- 120 Watt Speakers
- Windows 95 full version w/ CD or DOS 6.22 & Win 3.11

only $1950

only $1950

P5-133 Add $100
P5-150 Add $200
P5-166 Add $400

Sale

☺ **4MB - 1X32 - 70 ns 72 PIN ONLY $77** ☺
8MB - 2X32 - 70 ns 72 PIN ONLY $160

72 PINS MEMORY

4 MB 70ns 72 PIN (1x32)/(1x36)	77/87
8 MB 70ns 72 PIN (2x32)/(2x36)	165/190
16 MB 70ns 72 PIN (4x32)/(4x36)	300/340
32 MB 70ns 72 PIN (8x32)/(8x36)	650/780

30 PINS MEMORY

1 MB 80/70ns 30 PIN (1x9)	23/25
4 MB 80/70ns 30 PIN (4x9)	100/110

CONTROLLERS

IDE I/O VLB / IDE PCI	15/20
EIDE VLB w/ I/O 16550	24
Adaptec 1542CF ISA	165
Adaptec SCSI 2842 VLB	180
Adaptec SCSI 2940/2940W PCI	180/190
Adaptec 3940/3940W SCSI PCI	250/270

HARD DRIVERS

FUJITSU 1.0 GB IDE/SCSI	215/235
CONNER 540 IDE/1.20 GB	165/220
SEAGATE 2.0 GB SCSI II	540

KEYBOARDS

Mitsumi WIN95 / Keytronic WIN95	18/25
Focus 2001	35

MONITOR ~~NEC 15XV~~ 465

Impression SVGA 14" .28 NI	220
Impression SVGA 15" .28 NI	315
Impression SVGA 17" .26 NI	570
SONY15sf II/17sfII	500/850

VGA

SVGA ISA w/ 1MB	55
CirrusLogic VLB w/1MB/2MB	65/100
CirrusLogic 64 PCI w/1MB/2MB	70/105
SPiDER	
Spider Lynx 64 PCI 1MB/2MB	70/105
Spider 256 VLB 1MB/2MB	75/115
Tarantula Lite(S3) PCI w/ 1MB/2MB	80/120
Tarantula 64 MKII PCI 2MB/4MB	240/360
Tarantula 64 PCI 1MB/2MB VRAM	150/200
Tarantula 64 VLB or PCI 4MB VRAM	330
DIAMOND	
Stealth SE VLB w/ 1MB /2MB	90/125
Stealth 64 PCI 1M/2M DRAM	99/135
Stealth 64 PCI 2M/4M VRAM	245/395

TERMS AND CONDITIONS
1- One year parts & labor on all complete systems.
2- Not responsible for type errors.
3- Price and availability subject to change w/o notice.
4- 15% Restocking fee on returns
5- All special-ordered items are non-refundable.

MULTIMEDIA

Sound Blaster Compatible 16 bit	50
SoundBlaster 16 IDE Creative Lab	70
SoundBlaster AWE 32 (RAM socket)	130
MISUMI Quad Speed IDE CD-ROM	80
TOSHIBA 4X SPEED IDE / 6X SPEED	85/145
TEAC 6X SPEED IDE	150
NEC SCSI-2 CD-ROM Quad Speed	180
SONY SCSI-2 CD-ROM Quad Speed	145

MISCELLANEOUS

Fax/Modem 14400 / 28800	50/120
14400 Fax/Modem w/ Voice	60
US ROBOTICS Fax/Modem 28800	190
Mini Tower Case w/LED 230 Watt P.S	34
Desktop AT case w/230 Watt P.S	40
Medium Tower Case w/ LED 230 Watt P.S	58
Full Tower Case w/LED 250 Watt P.S	75
Full Tower Case w/ door open 300 Watt	95
Colorado 350Mb Tape Backup	115
Colorado T-1000 800MB W/TAPE	170
Microsoft Mouse (retail box)	35
Logitech Mouse 2 button/3button	15/24
1.44 /1.2 Floppy Drive	30/35
CPU Cooling Fan 486/P5-90	5/8
16-BIT ETHERNET CARD COMBO	35
25 Watt/100 Watt/120 watt Speakers	25/35/40

BENiTEK 486 SYSTEM

- * MotherBoard VLB w/256K Cache+CPU
- * 4MB RAM installed
- * 1.44 TEAC Floopy Drive
- * 540 MB IDE HD
- * IDE Controler w/ 2HD/2FD/2S/1P/1G
- * SVGA VesaLBus 16.7 Million color
- * Impression 14" SVGA .28 NI Monitor
- * Mini Tower Case w/230W P.S.
- * 101 keyboard
- * Microsoft Compatible Mouse w/ Pad

486DX4-100/256K VLB INTEL	799
486DX2-66/256K VLB INTEL	795
486DX-33/256K VLB INTEL	750
486DX4-100/256K VLB AMD	799
486DX2-80/256K VLB AMD	750
486DX2-66/256K VLB AMD	740

BENiTEK PENTIUM SYSTEM

- * Intel Triton MB PCIw/256K Cache
- * Intel Pentium CPU
- * 8MB RAM installed 72 pin
- * 1.44 Floopy Drive
- * 540 MB IDE HD
- * IDE PCI w/ I/O 16550 controller built-in
- * Spider Tarantula Lite PCI video(S3) 1MB
- * 14" SVGA .28 Color Non-IN Monitor
- * Mini Tower Case w/230W P.S.
- * 101 keyboard + Mouse w/ Pad

Intel Pentium 166MHz	$1529
Intel Pentium 150MHz	$1329
Intel Pentium 133MHz	$1200
Intel Pentium 120MHz	$1140
Intel Pentium 100MHz	$1085
Intel Pentium 90MHz	$1080
Intel Pentium 75MHz	$980

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PowerMac 7500/100 16/500 HD/CD $2299
PowerMac 8500/120 16/1GB HD/CD........$3799
Performa 5215CD 8/1GB HD/CD & Monitor....$1779
Performa 6116CD/60 8/700 HD/CD & Monitor....$1499
Performa 6300/100 8/1GB HD/CD Monitor........$2399

COMPAQ
Prolinea 5100E P/100, 8/1GB ISA/PCI $1799
Prolinea MT P/133 16/1GB ISA/PCI........$2879
DeskPro MT P/133 16/1GB ISA/PCI........................$3099
DeskPro XL P/133 16/1.05GB EISA/PCI $3799

Servers
Proliant 1500 P/133 32MB/2.1GB, CD ......CALL
1500 P/133 32/0HD, CD $7329
4500 P/133 64MB, 2x2.1GB, CD................CALL
Proliant 4500 P/133 64/0HD, CD............$12829

HEWLETT PACKARD
Vectra VL3 P/120 16/840 ISA/PCI........................$2299
Vectra VL4 P/133 16/1GB WIN 95 ....$2689
Vectra VT P/150 16/0GB ISA/PCI........................$3979
Vectra XU P/150 166/2GB ISA/PCI w/WIN NT..$5429

Servers
NetServer LS P/133 64, 2x2.1GB, CD................CALL
NetServer LS2 P/133 32, 2x2.1GB, CD $4529

PRINTERS

HEWLETT PACKARD
HP DeskJet 600, 600x300 dpi, BW......$249
HP DeskJet 660C, 600x300, Color $379
HP DeskJet 1600C, 600x300, Color..$1299
HP DeskJet 1600CM, 600x300, Color $1869
HP DeskJet 340, 600x300, Portable $279
HP DeskJet 340CV, 600x300, Portable................................CALL
HP LaserJet 4+, 12ppm, 600dpi..........$1339
HP LaserJet 4M+, 12ppm, 600dpi......$1869
HP LaserJet 4V, 16ppm, 600dpi..........$1869
HP LaserJet 4MV, PS, 16ppm, 600dpi $2699
HP LaserJet 5si, 4MB, 24ppm, 600dpi ....CALL
HP Color LaserJet, 8MB, 10ppm, 300dpi $5399
HP DesignJet 755CM, 64MB, 600x300 ....CALL

OKIDATA
OKI 400E, 4ppm, 300dpi........................$339
OL 600E 6ppm..$449
OL 610E 6ppm..$569
OL 610E/PS 6ppm......................................$739
OKI 810E 8ppm $779
OKI OL1200E...CALL
OKI 320 ....$319
OKI 321 ....$439

NOTEBOOKS

Apple
5300CS 16/750 HD $3099
5300C 16/750 HD $3999
5300CE 117 32/1GB HD ....CALL

TOSHIBA
T2130CT DX4/75 8/520 Active..............CALL
410CDT P/90 8/810/CD $4600
Tecra 700CT P/120 16/1.2GB...CALL
T100CS P/75 8/520HD, DS (In Stock) $1929

COMPAQ
Contura 420CX 8/420 ....$1995
Contura 430CX 8/720 ....CALL
LTE Elite 5000 ....CALL

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PalmTop 200, 2MB $699
OmniBook 5000C 8/540 HD.................CALL
OmniBook 4000CT 8/810 HD ....CALL

NEC
Versa 2000 Series ....CALL
Versa 4000 Series ....CALL

AST COMPUTER
Acentia 950N P/120 8/1.2GB 11.8" SVGA..........................$5279
Acentia 950 P/120 8/800/SVGA $4879

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Small Office/Home Office *continued...*

LapLink is capable of connecting across the Internet. If you can discover the IP address of the person to whom you wish to connect (or if they have registered with the free WINS server registry provided by Traveling Software) you can connect with any person who has entered the net by SLIP or PPP. Sorry, AOL folks, that does not include you at this time.

I connected via The WELL in San Francisco to Traveling Software in Washington State. An agreeable technician there had signed on through Netcom. I watched in some amazement as he controlled my computer from two states away, through two different Internet providers. We could simultaneously converse by chat-box.

The advantages, he said, are worldwide remote control, file transfer, and chat for the price of local phone calls. And you can run LapLink while browsing the Web or using other Internet utilities.

The disadvantages? Both users must have LapLink. And there is the problem of getting everything to work. It took us an hour of tinkering to get a connection through. We were each apparently on the Internet through a PPP connection, and we still kept having problems. We never did finally isolate the difficulty. The ever-honest support team at The WELL allowed that it was a dyspeptic afternoon on their server. Maybe in this case LapLink was not the culprit.

Whenever one opens the telephone lines, there is always the fear that one will get unwelcome company. Traveling Software is aware of the problem, and has built in a number of layers of security.

For the misanthropic there is total isolation. A full-security computer remains capable of dialing out, but refuses all incoming calls of any sort.

At the next increment of friendliness, one can create a list of acceptable callers. Only those machines will be able to communicate with this machine. Since LapLink sites exchange names when they connect, the refusal or acceptance will happen automatically. One can require passwords of incoming callers, or not, at choice.

Finally, there is the system with no security at all. This is the simplest choice, and can be ideal if one has basically no proprietary information on the host machine. LapLink itself functions as one layer or security—only LapLink users can get in. If that is enough, the open system is for you.

LapLink is good enough, so you immediately want it to do more. I wish that it could be operated with a timer and scripts—set everything up and let your system tryst with another and exchange files in the middle of the night. But macros and timers are not included in this edition of the program.

More serious: LapLink documentation makes no mention of either DDE or OLE, two Windows strategies for allowing other programs to use LapLink as a sort of subcontractor. If it had those abilities, one could design "automation scripts" to operate it from another program. As it is, LapLink's considerable abilities are rendered less useful by their effective isolation in the Windows environment. ■

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RESOURCES:

SnagIt32, $39.95
TechSmith Corp.
1-800-517-3001 x129
http://www.TechSmith.com

LapLink for Windows 95, $149 (estimated street price)
Traveling Software
1-800-343-8080
http://www.travsoft.com

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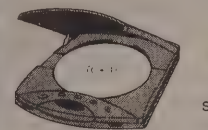
Serving Silicon Valley since 1964!

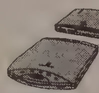
...brings you a potpourri of high-tech goodies for the techno-tinkerer!
For thirty years we have been your source for Silicon Valley exotica!

Multimedia Kit to Go!

- Media Vision *Reno* External CD ROM/Audio CD Drive:
  - ☞ Consists of new external Reno CD/ROM drive, docking bay with SCSI2 port, AC Adapter
  - ☞ Double-speed 180mS drive is lightning fast!
  - ☞ Drive detaches from docking bay, use with headphones as a portable personal audio CD player
  - ☞ Great for Mac or IBM (adaptor bracket included)
  - ☞ Brand new in box, 90-day warranty

Media Vision Reno Kit HSC#15586 **$89.95**

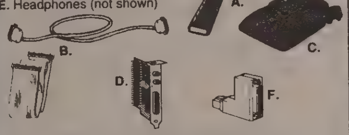




Reno detaches from SCSI2 Docking Bay for Complete Portability!

- **Media Vision *Reno* Kit HSC#15586 includes:**

A. Rechargeable Battery Pack
B. Reno Cable Kit (SCSI2 - DB25 cable, 50p. ribbon cable, internal & external audio patch cables)
C. Padded Travel Pouch
D. Internal SCSI IDS50 to DB25 Adapter bracket for IBM, use with Reno cable kit (above) & your SCSI card for convenient SCSI and audio connections
E. Headphones (not shown)



- ***Reno* Accessory Available Separately:**

F. Macintosh Powerbook SCSI Adapter (HDI-30 to 25-pin D connector) **HSC#15704** **$12.50** if purchased alone, or with purchase of Reno Kit, **$5.00**

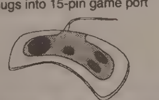
Lower CD/ROM Prices!

- Tested Good CD/ROM Drives removed from systems
- 90-Day Warranty ♦ 2x and 3x Speeds available
- First two drives are tray-type (no caddy needed)

Sanyo CDH-94 2X-Drive	**HSC# 98435**	**$49.00**
NEC CDR-55J 2X-Drive	**HSC# 98436**	**$49.00**
NEC CDR-84J 2X-Drive	**HSC# 15648**	**$49.00**
NEC CDR-510 3X-Drive	**HSC# 15327**	**$79.00**

Bargain Game Controller!

- Quickshot QS-191 Game pad for IBM Compatibles
- Faster action, less fatigue than a joystick
- Why pay more for a game device?
- Brand new, plugs into 15-pin game port



HSC#15594 **$3.95**

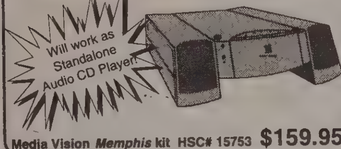
PCMCIA Sound Card!

- Media Vision PCMCIA 16-Bit Sound Card
- Great for Portables, Laptops with PCMCIA Slot
- External Pod has Joystick Port, Mic. input, Line In & Line Out jacks, Volume control.
- Microphone included
- Installation software, instructions included
- New in OEM packaging
- 90-day warranty

Media Vision PCMCIA Sound Card HSC# 15585 $39.95

Plug & Play Multimedia!

- Media Vision ***Memphis*** Kit (Limited Quantities Available)
  - ☞ Drive unit consists of new SCSI double -speed drive, custom enclosure, and detachable Bose active speakers with 10W/Channel amplifiers.
  - ☞ Includes Pro-Audio Spectrum 16 SCSI sound card, with special interconnect cable.
  - ☞ MPC & MPC2-compliant, true 16-bit stereo sound
  - ☞ Midi ports and audio jacks on back, NEC CDR210 CD/ROM Drive has tray, does not need caddies.
  - ☞ Supports DOS, Windows 3.1, Sound Blaster and Ad-Lib, joystick and full-duplex MIDI, so it can run nearly all audio applications ever made for PC's!
  - ☞ Awesome sound from Bose speakers!
  - ☞ Comes with copies of instruction manual, power supply, installation software, 90-day warranty



Media Vision *Memphis* kit HSC# 15753 $159.95

Bargain SCSI Sound Card!

- Mediavision **ProAudio Spectrum 16** sound card
- 16-bit audio, 44.1KHz stereo sound
- MPU 401 MIDI emulation, Soundblaster compatible
- Internal SCSI CD-ROM port, microphone jack (mike not included), line-in, speaker jack, joystick port
- Includes driver disk, information sheet (no book)
- OEM package (no box), 90-day warranty

HSC#15797 **$39.95**

Motor Mania!

♦ Small (1.5" x 1.5" x 1") Stepper Motor, 13.2VDC, .45A/Φ, 200 steps per revolution. No spec. sheet available yet.
HSC# 15597 **$5.95**

♦ Small (1.625" x 1.625" x 1.25") Stepper Motor, 12VDC, .210A/Φ, 100 steps per revolution. Shaft is .125" dia., has .75" dia. crowned pulley for flat belt. Made by Berger Lahr, data sheet with connection diagram (in German) included.
HSC# 15751 **$6.95**

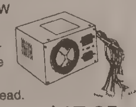
♦ Small (1.75" dia x 1.875" overall body dim.) Linear Actuator Stepper Motor, 12VDC @ 5 Watts, 1" overall travel, .003" per step. Has 32 oz. (8.9N) maximum force, 8 oz. (2.2N) unenergized holding force. Shaft has .125" long x .0625" tip to attach item being moved, shaft does not rotate when actuated. Neat robotics actuator! Mfg. by Airpax, no connection diagram, but spec. sheet is included.
HSC# 15750 **$12.50**

♦ Medium (1.5" dia. x 3") Pittman Motor, 19.1 VDC, with optical shaft encoder. Sorry, no data sheet available yet.
HSC# 15654 **$9.95**

♦ Large (3.25" dia. x 6.25") 20VDC @ 5.7A Sanyo Denki permanent magnet DC Reel Motor, 9/16" shaft is stepped down to 1/2", 580rpm, or use as 70W generator! Attention robotics enthusiasts...this is a heavy-duty beauty!
HSC# 15327 **$27.50**

Mini-Tower Power Supply

- "Mini-tower" power supply, pulled from new computers
- Fits most Mini- and Mid-size tower cases as well as many small-footprint desk-top cases. 230W
- Measures 6" x 5.5" x 3.5"
- Has normal motherboard connectors, three large and two small drive connectors on 12" leads
- Push-type power switch on 18" lead.



HSC# 15736 **New Lower Price!** **$17.95**

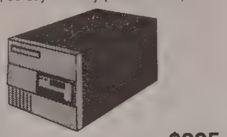
1200 dpi Color Scanner!

- Dexxa sheet-feed full page (8.5" x 11") color scanner
- 1200 dpi, 24-bit TWAIN interface, Windows compatible
- Brand new in box with extensive software bundle
- Includes OCR Album, Fax, Copy, Image editing, Slide Show, Electronic Database
- IBM interface card & cables included
- Made by Logitech -- One Year Factory Warranty

HSC#15775 **$249.95**

Optical Drive Jukebox Project

- Optical Drive Jukebox by International Data Engineering
- Set up for Panasonic drive, which is not included
- Changer mechanism stores and changes ten disks, and can be loaded or unloaded from front access slot
- Accepts 650MB, 1GB and 1.3GB optical disks
- SCSI Interface, software included
- Can be set up for other drives, including Maxtor, but will require fabrication of mounting brackets and alignment
- Installation manual includes alignment procedure
- Measures 12" x 12" x 18"
- New in box, 90-day warranty (if unmodified)



HSC#15773 **$295.00**

Remote Control for your Computer!

Dealer Inquiries Invited!
FORTE
COMMUNICATIONS

- Infrared Remote operates your computer from 50 feet
- Perfect for sales presentations, training, demonstrations
- Serial Interface (IBM version) or ADB (Mac version)
- Handheld remote is 7" x 2.5" x .5"
- Included software provides screen pointer for emphasis
- Keystroke mapping table can be customized, saved
- Roam the room, make eye contact with your audience
- Like using a TV set remote control (easy to set-up, use)

HSC# 15240	**IBM Remote Keyboard**	**$29.95**
HSC# 15241	**Mac Remote Keyboard**	**$39.95**

Pentium Motherboards!

- New-in-box 66 MHz PCI Pentium Motherboard
- Four PCI Slots, Four 16-bit ISA Slots, uses 72-pin SIMM's
- ZIF Socket contains your choice of CPU, 60 or 66 MHz
- 256K Cache RAM installed, supports up to 1MB Cache
- PCI clock rates from 20 to 33 MHz supported
- User's manual included, ninety-day warranty

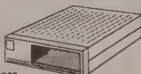
HSC# 15763	**with 60MHz CPU**	**$179.00**
HSC# 15796	**with 66MHz CPU**	**$189.00**

Photomultiplier Bargain!

- Just in - two styles of Phillips photomultiplier tubes!
- XP2412 has large (3") face, 9 multiplication stages.
- XP2102 has small (2") face, 9 multiplication stages
- Both tubes are 2" dia. body, 6" long over-all length.
- Note, these are light detectors, not image amplifiers
- No specs. available at press time, we're looking!
- New tubes, appear to have voltage multiplier built-in

Philips XP2412/SQ5 (large)	**HSC# 15734**	**$27.50**
Philips XP2102/SQ5 (small)	**HSC# 15735**	**$27.50**

SCSI Drive Case Deal!



- Low-profile case for 5.25" drives
- Perfect for CD-ROM, hard drives
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- 50-pin SCSI daisy-chain connectors
- Internal 50-pin cable, SCSI ID switch
- 35-watt power supply delivers 5VDC @ 2A, 12VDC @ 2A
- Used case has 90-day warranty, may need some screws

HSC# 15744 Low-Profile 5.25" Drive Case **$24.95**

Digital Multimeter Deal!

- Low-cost Digital Multimeter with High-end Features!
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HSC# 80370 **$19.95**

Bargain Video Card!

- Low-end card for bargain systems
- ATI EGA Wondercard does it all: Hercules mono-graphics, CGA, EGA, RGB, low-res VGA (9-pin 640 x 480)
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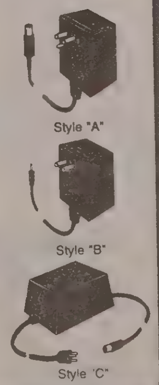
- Perfect for low-end systems, servers, BBS, kids, etc.
- Ninety day warranty

HSC# 15795 **$39.95**

Large assortment of AC Adaptors!

Fig.	Output	Plug	HSC#	Price
A	5VDC @ 500mA, ±12VDC @ 130mA	5p. DIN/M	12634	$4.95
A	5VDC @ 500mA, 12VDC @ 1A	5p. DIN/M	15140	$9.95
C	5VDC @ 600mA, ±12VDC @ 250mA	5p. DIN/M	15325	$12.50
C	5VDC @ 700mA, 12VDC @ 500mA	5p. DIN/M	15532	$4.95
A	5VDC @ 750mA, ±12VDC @ 500mA, 150mA	5p. DIN/M	12634	$14.95
C	5VDC @ 3A (IEC Cord not included)	4p. DIN/F	14996	$5.95
B	5VDC @ 3.5A	3.5mm Coax	15570	$8.95
B	6VDC @ 2A	2.5mm Coax	15569	$9.95
B	9VDC @ 200 mA	2.5mm	15571	$3.95
C	12VDC @ 500mA	6p. Molex	15668	$4.95
A	12VDC @ 2.5A	6p. Molex	15450	$12.50
B	13.5VDC @ 1.5A	Special Coax	15643	$9.95
B	18VDC @ 300mA	None	14024	$1.95
B	9VAC @ 400 mA	3mm Coax	13000	$3.95
C	9VAC @ 1.7A	3mm Coax	12796	$5 95
A	10VAC @ 2.2A	Screw Term.	13918	$5.95
B	12VAC @ 9.6A	3.5mm Coax	15372	$5.95
A	14VAC (CT) @ 1.1A	3p. Molex	14617	$7.95
B	15VAC @ 100mA	2.5mm	11797	$1.95
B	16VAC @ 300mA	None	12916	$3.95
C	16VAC @ 1A (110/220VAC input)	2.5mm Coax	15700	$7.95
A	16.2VAC @ 1.1A	2.5mm Coax	15152	$3 95
C	16.4VAC(CT) @ 1.4A, 25.6VAC(CT) @ 180mA	6p. DIN/M	15309	$7 95
A	18VAC @ 550mA	5p. Molex	15399	$3.95
B	20VAC @ 400 mA	3mm Coax	12601	$4 29



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Accounting

continued from page 84

provision, perhaps because larger, better established technology companies see it as a competitive threat.

Under federal law, gain on the sale of stock in a closely held corporation to an Employee Stock Ownership Plan (ESOP) organized by that corporation is not recognized. This rule often benefits high-tech and other start-up companies, but is usually not applicable to larger, publicly traded corporations. The California legislature let it expire for taxable years beginning on or after January 1, 1995. Instead, an adjustment must be made on the California return to add back the gain deferred on the federal return.

The Franchise Tax Board has compiled lists of nearly one hundred provisions to which California law does not conform with federal law, for both personal and corporate income tax purposes (see Resources). Examples of individual business deductions allowed by California but not the IRS:

- Travel and other expenses of family members or others accompanying a business traveler;
- Dues paid to "clubs," including airline and hotel clubs; and, most important to the well-being of legislators and their families,
- Lobbying expenditures paid to influence legislation or official positions.

An important corporate difference is that the state has not conformed to the federal depreciation methods for assets acquired after 1986. California still basically relies on the less favorable, pre-1981 economic life span of depreciable assets, meaning it takes longer to get their deduction value.

The California legislature is now evaluating proposals to require the licensing of computer programmers. This raises the specter of devastating tax consequences to independent programmers who incorporate. Currently, licensed engineers who incorporate are generally subject to the harsh tax rules applying to "personal service corporations." If programmers become licensed professionals, they may well fall under the same strictures.

Like New World and Old World monkeys, U.S.-California tax differences undergo further divergent evolution as time goes by.

As this continues, the best interests of computer industry professionals should sit squarely at the forefront of California legislative concerns. Now is as good a time as any to start tracking those legislators whose actions have key impact on the industry. We'll resolve to do so for readers in 1996. We encourage you to contact us throughout the year with reports, hot tips, and crackpot theories about tax legislation and technology business. ■

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The authors and publisher assume no responsibility for use or content of this article. Your professional accounting or tax advisor should be consulted on such matters as they apply to your situation.

Complimentary reprints of the following are available from David Simon's office in Oakland at (510)893-5753.

"Two New State Tax Incentives for the Computer Industry," *MicroTimes* (March 6, 1995).

Table summarizing California differences, compiled by California State Tax Institute.

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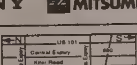

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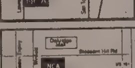

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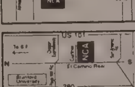

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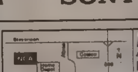

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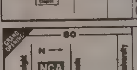

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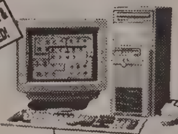

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- **Diamond** Stealth 64 2201 **2MB** PCI video card, **(MPEG Upgradeable)**
- **Western Digital 1.6GB** Enhanced IDE hard drive
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- **Mitsumi** Internal **Quad-speed** Enhanced IDE CD-ROM drive
- **Creative Labs** AWE 32 **32-bit** sound card
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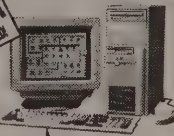

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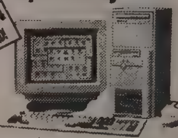
1.6GB/16MB EDO RAM - 256K PIPELINE BURST CACHE

Quad-Speed Multimedia Computer System



System Comes With DOS 6.2 & Windows 3.11 INSTALLED!

- **NCA's** elegant 9 bay Mid-tower case
- **250W** power supply
- **256K PIPELINE BURST** cache
- **Intel** P133 CPU
- **TRITON** chipset
- **16MB EDO RAM/72 pin SIMMs** exp. to 128MB
- 4-PCI / 4-ISA (P&P ready)
- PCI IDE & floppy - 2 floppies, 2 hard drives & 2 serial on board
- **Diamond** Stealth 64 2201 **2MB** PCI video card, **(MPEG Upgradeable)**
- **Western Digital 1.6GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- **Mitsumi** Internal **Quad-speed** Enhanced IDE CD-ROM drive
- **Creative Labs** AWE 32 **32-bit** sound card
- **Microsoft** Ergonomic Serial Mouse
- **Mitsumi** 101-Key keyboard
- **Yamaha** YST-M5 speakers
- **FCC Class B certified**

Monitor not included

$2249

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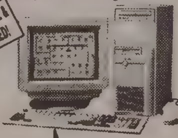
WESTERN DIGITAL IDE MITSUMI DIAMOND YAMAHA FCC B APPROVED

NCA's ALEXIS SERIES - QP120

PENTIUM 120MHZ PCI

1.2GB/16MB EDO RAM - 256K PIPELINE BURST CACHE

Quad-Speed Multimedia Computer System



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- **NCA's** elegant 9 bay Mid-tower case
- **250W** power supply
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- **Intel** P120CPU
- **TRITON** chipset
- **16MB EDO RAM/72 pin SIMMs** exp. to 128MB
- 4-PCI / 4-ISA (P&P ready)
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- **Diamond** Stealth 64 2201 **2MB** PCI video card, **(MPEG Upgradeable)**
- **Western Digital 1.2GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- **Mitsumi** Internal **Quad-speed** Enhanced IDE CD-ROM drive
- **Creative Labs** SoundBlaster **16-bit** sound card
- **Microsoft** Ergonomic Serial Mouse
- **Mitsumi** 101-Key keyboard
- **Yamaha** YST-M5 speakers
- **FCC Class B certified**

Monitor not included

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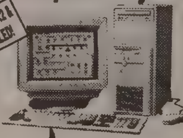
NCA's ALEXIS SERIES - QP100

PENTIUM 100MHZ PCI

1.2GB/8MB EDO RAM - 256K PIPELINE BURST CACHE

Quad-Speed Multimedia Computer System



System Comes With DOS 6.2 & Windows 3.11 INSTALLED!

- **NCA's** elegant 9 bay Mid-tower case
- **250W** power supply
- **256K PIPELINE BURST** cache
- **Intel** P100 CPU
- **TRITON** chipset
- **8MB EDO RAM/72 pin SIMMs** exp. to 128MB
- 4-PCI / 4-ISA (P&P ready)
- PCI IDE & floppy - 2 floppies, 2 hard drives & 2 serial on board
- **Diamond** Stealth 64 2201 **2MB** PCI video card, **(MPEG Upgradeable)**
- **Western Digital 1.2GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- **Mitsumi** Internal **Quad-speed** Enhanced IDE CD-ROM drive
- **Creative Labs** SoundBlaster **16-bit** sound card
- **Microsoft** Ergonomic Serial Mouse
- **Mitsumi** 101-Key keyboard
- **Yamaha** YST-M5 speakers
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Monitor not included

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NCA's ALEXIS SERIES - QP75

PENTIUM 75MHZ PCI

1.2GB/8MB EDO RAM - 256K PIPELINE BURST CACHE

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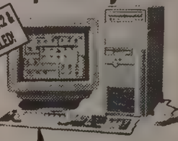

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- **NCA's** elegant 9 bay Mid-tower case
- **250W** power supply
- **256K PIPELINE BURST** cache
- **Intel** P 75 CPU
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- **8MB EDO RAM/72-pin SIMMs** exp. to 128MB
- 4-PCI / 4-ISA (P&P ready)
- PCI IDE & floppy - 2 floppies, 2 hard drives & 2 serial on board
- **Diamond** Stealth 64 **2MB** PCI video card
- **Western Digital 1.2GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- **Mitsumi** Internal **Quad-speed** Enhanced IDE CD-ROM drive
- **Creative Labs** SoundBlaster **16-bit** sound card
- **Microsoft** Ergonomic Serial Mouse
- **Mitsumi** 101-Key keyboard
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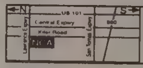

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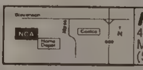

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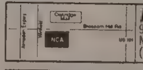

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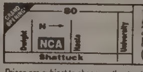

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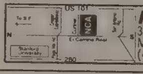

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- 5 year warranty

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AVA-1515	Total Connect ISA to SCSI host adapter w/ BIOS	$85.95
AHA1522 A-PLUS	16-BIT 7HD/2FD KIT	$135.95
AHA-1542CP	ISA to Fast SCSI BUS Master	$235.95
AVA -2825VL	32-bit VL to Fast SCSI & VL to E-IDE	$155.95
AHA-2842A	Fast SCSI-II VESA	$235.95
AHA-2920	PCI to SCSI-II w/programmed I/O (PIO)	$154.95
AHA-2940	PCI SCSI MASTER RISC-BASED I/O	$249.95
AHA-2940UW	Ultra Wide PCI host adapter	$299.95
AHA-3940	Twin Channel PCI	$405.95
AHA-3940W	Twin Channel PCI wide	$469.95
AHA-3985	PCI RAID Adapter w/ 3RISC Processors	$709.95
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APA-358	SlimSCSI EPP	$155.95
APA-9320/9310	Airport 2500-Wireless infrared port for PCs	$139.95

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DTC3274VL	SCSi-II Bus Mastering	$159.95

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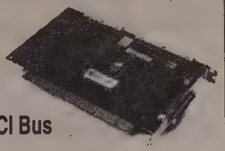

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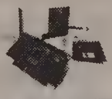

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MODEL	DESCRIPTION	PRICE
KT545C	ISA Bus Master Fast SCSI Adapter Kit	$208.95
KT445C	Bus Master Fast SCSI Kit for VL Bus	$195.95
KT757C	FASTWIDE SCSI Card	$348.95
KT930C	32-Bit Bus Master FAST SCSI -PCI	$144.95
KT946C	Bus Master Fast SCSI for PCI Local Bus	$229.95
KT956C	WIDE PCI Card	$289.95

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MODEL	DESCRIPTION	PRICE
KT510A	IDE Cache Contoller For PC/AT Sys.	$89.95
KT410A	IDE Cache Controller for VLB	$115.95
KT910A	IDE PCI Cache Controller	$165.95

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223EH	2HD/2FD for VESA LOCAL BUS 16550 I/O	$44.95

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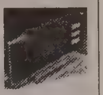

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IDE CONTROLLERS

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DC-420VLB	VESA IDE 512K Cache	$95.95
DC-4030VL-2	VESA IDE 2.88MB support 4HD/2FD	$99.95
EIDE *MAX*	-16-bit enhanced IDE controller	$24.95

gsi™

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GSI 18	16-Bit 2 IDE Devices	$35.95
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GSI 32	16-Bit Multi Port IDE/Tape & I/O	$115.95
GSI 4C	16-Bit 8-IDE Devices	$119.95
GSI 1645-V1	32-Bit VESA FAST ATA-2 E-IDE (2 DRIVE)	$CALL
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13-Port Super I/O Card

4 Integrated NS16550 High Speed UARTs

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- 4 floppy
- 2 Parallel
- 4 Serial
- 1 Game

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DTC 2278E	VLB Enhaced IDE, Enhanced Parallel: Serial Port	$24.95
DTC 2278EB	VLB Enhaced IDE, Enhanced Parallel: Serial Port w/Bios	$38.95
DTC 2278D+	Enhanced IDE Multi-Functional I/O	$26.95
DTC 2280E	16550 EPP/ECP	$19.95

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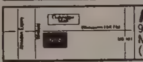

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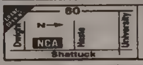

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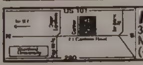

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Largest Selection Of Mass Storage Drives...At Low Prices, Guaranteed!*

Tape Backups

CONNER TAPE•STOR 800

Low Price Guarantee!*

800MB Internal Tape Backup System

TRAVAN TECHNOLOGY

INCLUDES TAPE & WINDOWS 95 DRIVER!

- Double the speed of QIC-80
- Up to 800MB capacity with new Travan Technology
- Complete backup solution for DOS and Windows
- Backs up data from local or network hard disk drives
- Fully compatible with Travan, QIC-Wide,QIC-80, and Irwin AccuTrak 250 tapes, and can read QIC-40, and AccuTrak 120 tapes
- Includes Backup Exec software for PC, mounting hardware, cables and manual

$139.95

COLORADO MEMORY SYSTEMS

Low Price Guarantee!*

NOW INCLUDES WINDOWS 95 DRIVERS!

350MB Internal Tape Backup System

- Up to 350MB capacity using data compression
- Up to 9.5MB/minute backup speed
- 200MB backup in about 20 minutes
- Includes cables
- Includes powerful, easy to use software
- Runs off of floppy port

DJ-35D

$124.95

800MB Internal Tape Backup System

NOW INCLUDES TAPE CARTRIDGE!

- First with TRAVAN technology
- Up to 800MB capacity using data compression
- Up to 9.5MB/minute backup speed
- Includes cables
- Includes powerful, easy to use software
- Runs off of floppy port

T-1000

$164.95

HEWLETT PACKARD

NEW!

Low Price Guarantee!*

2.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE DRIVE

- 2GB of Data on a Single Cartridge
- Avg. 50sec. File Find (Fastsearch)
- 183Kb/s Transfer Rate
- Uses 60 & 90 meter Cartridge
- Compliant with all DDS DAT Drives

C1534A

$649.95

4.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE DRIVE

- Typically 4GB of Data on a Single Cartridge
- Avg. 50sec. File Find (Fastsearch)
- 366Kb/s Transfer Rate
- Uses 60 & 90 meter Cartridges
- Compliant with all DDS DAT Drives

NEW!

C1536A

$759.95

Removables / Opticals

SyQuest **EZ-135**

Low Price Guarantee!*

135MB 3.5" EXTERNAL SCSI-II SYQUEST REMOVABLE

Unlimited PORTABLE storage capacity on a 3.5" disk!

- 13.5ms seek time
- 135MB Cartridge
- Cables
- Installation Software
- 1.9MB/sec sustained transfer rate - twice the transfer rate of the Zip Drive
- MTBF 200,000 hours

Includes FREE 135MB Cartridge

$229.95

FUJITSU **2512**

Low Price Guarantee!*

230MB 3.5" Internal SCSI-II Rewritable Optical Drive

- Fast seek time
- 3600RPM
- 256K Cache
- Software for MAC (free upon request)

$519.95

HEWLETT PACKARD **C1716T**

Low Price Guarantee!*

1.3GB Internal SCSI-II Rewritable & WORM Drive

- 512K buffer
- Up to 1.6MB sec. read & 0.8MB/sec write
- Up to 3600 RPM
- 5MB/sec burst rate
- 23.5 average seek time

$1975.95

IBM Imagestar Basic

Low Price Guarantee!*

230MB 3.5" Internal Optical Drive

With the advantage of SCSI performance, reliable storage at a low cost-per-byte, high capacity 230MB and a slim 3.5" format, the Imagestar 230MB Optical Disk Drive from Options by IBM is the perfect choice for all kinds of desktop applications.

- SCSI-II interface
- 230MB capacity per 3.5" optical disk
- Up to 1.4MB/sec sustained transfer rate
- Up to 5.0MB/sec burst transfer rate
- 40,000 MTBF
- 1 year warranty

$555.95

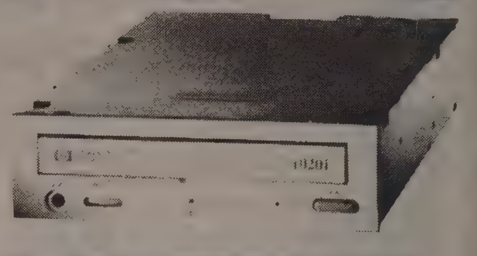
1.3GB 5.25" Internal Optical Drive

When you're looking for the versatility to handle all you large file needs, the multifunction IBM Imagestar 1.3GB Optical Disk Drive provides a perfect solution. Combines multifunction capabilities with a 1.3GB capacity - the only drive that you can use to transport large files on rewritable, CCW Write Once, Read Many (WORM) or permanent WORM media.

- SCSI-II interface
- 1.3GB capacity per 5.25" optical disk
- Up to 1.4MB/sec sustained transfer rate
- Up to 5.0MB/sec burst transfer rate
- 180,000 MTBF
- 1 year warranty

MO-DRIVE

$1688.95



Recordable CD Drives

SONY *Sony Spressa 920 CD Recorder for PC*

Low Price Guarantee!*

Internal SCSI-2 650MB, 5.25" Recordable CD Drive

Comes with Corel CD Creator software (a data editor, audio editor, & jewel case designer), making recording quick and easy.

- **CSP-920S**
- 650MB, 74 minutes audio recording
- 360ms access time
- 1MB recorder buffer
- Write speed: 1x(150KB/sec), and 2x (300KB/sec)
- Read speed: 1x, & 2x
- Includes 3 CD-R discs

NEW!

$979.95

HEWLETT PACKARD *HP SureStore CD-Writer 4020i*

Low Price Guarantee!*

Internal SCSI-2 650MB, 5.25" Recordable CD Drive

Comes with a complete software suite for creating custom CDs, along with the necessary media, cards, and cables to begin recording immediately.

- **C4324A**
- 650MB, 74 minutes audio recording
- <390ms access time
- 1MB recorder buffer
- Write speed: 1x(150KB/sec), and 2x (300KB/sec)
- Read speed: 1x, 2x, and 4x (600KB/sec)

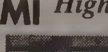
NEW!

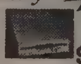
$979.95

Floppy Drives

MITSUMI *High Quality*

Low Price Guarantee!*





1.44MB 3.5"	$28.95
1.2MB 5.25"	$43.95

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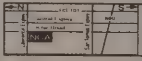

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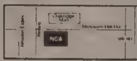

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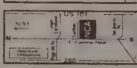

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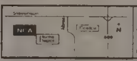

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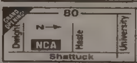

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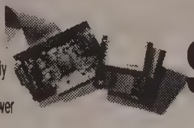
PCI SCSI Master / AHA-2940

Maximizes PCI-system performance with easy-to-use RISC-based SCSI I/O

- 133MB/sec. burst data rate on the PCI local bus
- 10MB/sec. synchronous data rate on the Fast SCSI bus
- Full 32-bit wide data transfers
- Supports up to 7 individually configured SCSI-II devices simultaneously (asynchronous and synchronous)
- Includes software for SCSI tape backup (Back Basics), Photo-CD Viewer (Magic Lantern), and CD player applications

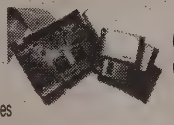


$249.95

SCSI Master (Plug & Play) / AHA-1542CP

Easiest way to add high-performance Plug & Play SCSI to your system

- 10MB/sec. burst data rate on the ISA
- 10MB/sec. synchronous burst data rate on the Fast SCSI-II bus
- 16-bit data transfer on the ISA bus
- Full multitasking and multithreading
- Supports up to 7 SCSI devices simultaneously
- Supports up to two floppy drives
- Designed to support double-, quad-, and six-speed CD-ROM drives

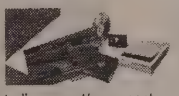


$235.95

TotalAdvantage VL / AVA-2825

Complete 32-bit VL-to-Fast SCSI & VL-to-EIDE host adapter

- AVA-2825 VL-to-Fast SCSI & VL-to-E-IDE (enhanced IDE)
- Connect up to 7 SCSI devices
- Up to 2 standard or enhanced IDE devices
- Up to 2 standard and 1 floppy tape drive
- Adaptec EZ-SCSI lite software
- Up to 5MB/sec. synchronous on SCSI bus
- Advanced SCSI programming interface compliant, disconnect/reconnect, synchronous & asychronous data transfer



$155.95

Slim SCSI / APA-1460

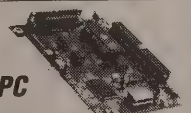
16-bit PCMCIA-to-Fast SCSI-II host adapter

- Compact design - Type II credit card sized adapter and 3-foot cable only weigh 6.4oz.
- 32-wire cable ensures clean SCSI signals and reliable connection
- Up to 7 SCSI devices
- 2MB/sec. host bus data transfer rate (16-bit)
- 10MB/sec. synchronous data transfer on the SCSI bus

$169.95

AHA-2920

Fast, simple SCSI connection for your Pentium PC



- 10MB./sec fast synchronous (SCSI-II) burst rate on the SCSI bus
- Up to 7 SCSI devices supported simultaneously
- Plug & Play support for hard disk, CD-ROM, removable disk, scanner, tape, Zip, MO, DAT, and other SCSI-II devices
- Programmable I/O (PIO) data transfer
- Compliance with 133 MB/sec. PCI local bus specification

$154.95

TeleVideo®

MULTIMEDIA

TeleMPEG Pro

MPEG Video Graphic Board

Experience full screen, full motion, full color video on your PC and TV with TeleMPEG Pro. Unlike standard MPEG boards, TeleMPEG Pro delivers more than just the ability to play CD movies on your PC - TeleMPEG Pro has a special video out feature that lets you watch CD movies on your TV! You can also play live-action interactive games, watch feature length concerts and movies, or use interactive educational reference manuals - all in 16-bit CD quality sound.

- ISA bus interface
- MPEG Video Standard
- NTSC and PAL composite video output
- Full MPEG Standard (ISO11172) compliant
- Supports OM-1, new Windows multimedia specifications endorsed by Microsoft
- Supports CD-I, Karaoke CD, Video CD v2.0 formats
- 16-bit CD quality stereo sound
- Up to 65,000 colors
- Resolutions up to 1024x768
- Frames Per Second: 30fps (NTSC), 25fps (PAL), 24fps (film) with sustained frame rate
- High quality analog multiplexing video overlay
- Bus free operation without affecting the bandwidth

PC2 Multimedia PC.

OS/2

GENERAL MIDI

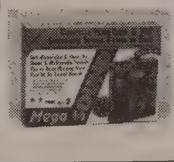
MPEG

$319.95

TeleWave Q32/SRS

16-Bit Wavetable Sound Board

- Advanced DSP wavetable synthesis based sound board
- Three dimensional true to life SRS surround sound
- 16-bit CD-quality stereo sound
- 128 general MIDI instruments with 51 drum kits
- 100% Sound Blaster, AdLib compatible
- 32 note polyphony and 16 MIDI channels
- Stereo sampling rates from 4 kHz to 48 kHz
- General MIDI & MPU-401 compatible
- Easy installation and jumperless configuration
- Bundled software worth over $900



Includes MECHWARRIOR 2!

$135.95

WaveImpact 32

Wavetable Sound Daughter Board

- Advanced DSP wavetable synthesis daughter board
- 32 note polyphony and 16 MIDI channels
- 128 general MIDI instruments with 51 drum kits
- General MIDI & MPU-401 compatible
- Plug & Play onto TeleSound Pro 16 or Sound Blaster 16 compatible sound board with wave connector
- Includes MIDI Orchestrator Plus, a professional-quality MIDI sequencer

$59.95

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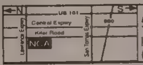

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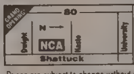

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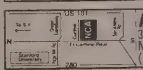

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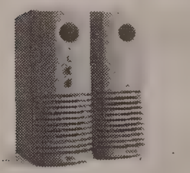
YAMAHA

THE WAY YOUR COMPUTER SHOULD SOUND.

POWERED MONITOR SPEAKERS

YST-M5

Active Servo Technology

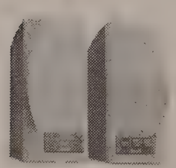


- 3 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 90Hz-20KHz ± 3dB
- Includes AC Adapter

$\$39^{95}$

YST-M10

Active Servo Technology



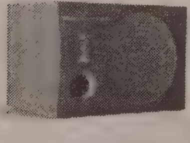
- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
- 4 Star Rating "MACWorld April 1994"

$\$79^{95}$

YAMAHA POWERED SUBWOOFER

YST-MSW10

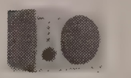
Active Servo Technology



- 25 Watts • Video shielded
- Auto On/Off Switching
- Active Servo Technology delivers Life-like sound
- 35Hz-250KHz ± 10db

BLACK VERSION ONLY

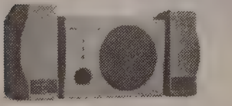
$\$99^{95}$



WHITE version of YST-MSW10 (above)

$\$169^{95}$

YST-SS1010



YST-MSW10 subwoofer
PLUS YST-M10 speakers
(see descriptions above)

$\$239^{95}$

SOUND CARDS

18-Bit Wavetable Sound Card NEW!

WAVEFORCE SW60XG

To say that the Yamaha WaveForce SW60XG offers the best sound ever from a computer doesn't even begin to tell the story. With 4MB of waveROM for more and better sounds; digital signal processing for studio-quality effects; 18-bit digital-to-analog conversion for more dynamic range than an audio CD; and microphone, CD, and line inputs, the SW60XG will entirely change your perception of a computer sound system. Whether you are a game player looking for the ultimate audio experience, or a musician requiring complete musical expression, or if you're looking for the best music and sounds for multimedia, the SW60XG is your complete solution

18-Bit D/A Converter

The SW60XG's premium sound is also a result of it's 18-bit Digital-to-Analog converter (DAC), the computer industry's first! The DAC converts digital data for analog output for your powered speakers. The more bits, the greater the dynamic range. A wider range means less noise, softer softs, and louder louds for crisp exceptional sound.

Add Your Own Voice

With all the exceptional sounds sounds on the SW60XG, there's still something you can add: your own voice. The SW60XG accepts a microphone input so you can sing right into the computer. You can also plug in acoustic instruments and a CD as well, then apply DSP effects to any of these inputs. With the mic and CD inputs and the SW60XG's Voice Cancel mode (which eliminates vocals from pre-recorded music*), you can sing lead with your favorite recording. **COMPATIBILITY** - XG will remain fully compatible with current industry standards. **SCALABILITY** - XG data is transportable across products, from professional synthesizers to sound cards. Yamaha has incorporated XG into it's diverse line of digital instruments, including MU tone generators such as the QS300 music production synthesizer. **EXPANDABILITY** - XG can be updated yet maintain all it's compatibility and scalability.

Tone generation	Wave Table (Yamaha AWM2)
Polyphony	Maximum 32 notes
Parts	16 parts (Dynamic Voice Allocation)
Voice ROM	4MB
Number Of Voices	Total 676 voices, 21 drum kits 480 melody voices, 11 drum kits; compatible with General MIDI Level 1, and XG
Effects	Reverb - 11 types; Chorus- 11 types; Variation- 42 types
D/A Conversion	18-bit

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* Effectiveness of this feature may vary upon recording

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Wavetable Sound Daughter Board

WAVEFORCE™ DB50XG

Easy Installation

The DB50XG snaps easily and quickly onto most Creative labs SoundBlaster 16 sound cards or onto any card with a WaveBlaster expansion port.

Extensive Compatibility

The DB50XG in compatible with the industry standard: General MIDI (GM). Every GM compatible DOS or Windows game and application will play beautifully on the DB50XG.

Exceptional Sound

DB50XG goes beyond General MIDI. It's the first daughter board with XG - a major technological advancement developed by Yamaha. First, XG allows significantly more voices than GM. In total, DB50XG adds over 548 voices into the 128 standard GM choices. The DB50XG allows you to play more voices at once, allowing for more dramatic impact. Additionally, XG features state-of-art Digital Signal Processing (DSP) that creates unprecedented realism. When added to the extensive voice list, the DB50XG has the depth and range to create the most realistic - or surrealistic - sounds in the galaxy. When combined with the Yamaha YST speakers, your sound will be so dramatic, you won't play the game, you'll live it!

Tone generation	Wave Table (Yamaha AWM2)
Polyphony	Maximum 32 notes
Parts	16 parts (Dynamic Voice Allocation)
Voice ROM	4MB
Number Of Voices	Total 676 voices, 21 drum kits 480 melody voices, 11 drum kits; compatible with General MIDI Level 1, and XG
Effects	Reverb - 11 types; Chorus- 11 types; Variation- 42 types

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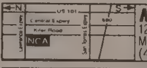

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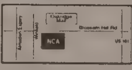

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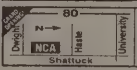

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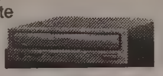

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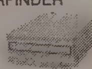

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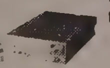

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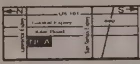

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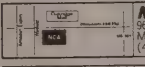

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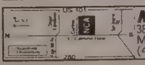

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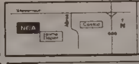

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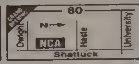

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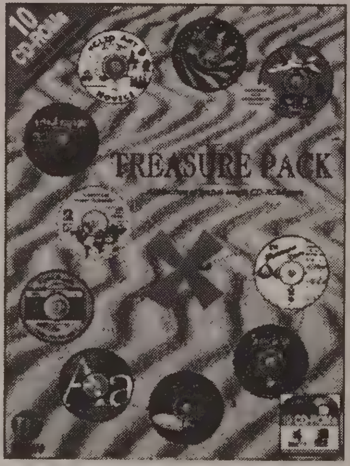

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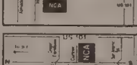

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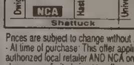

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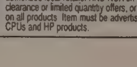

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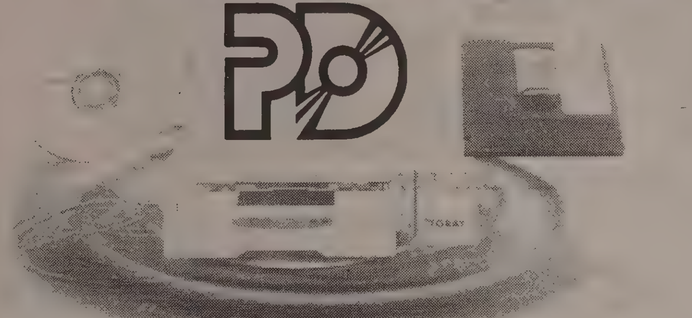

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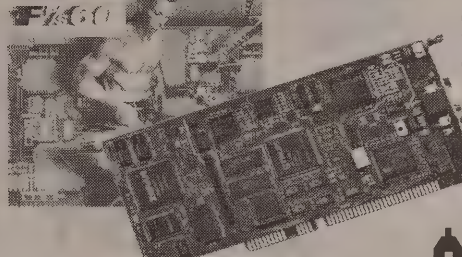

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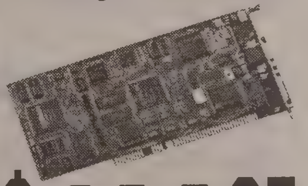

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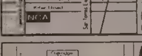

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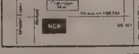

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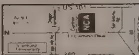

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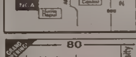

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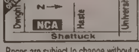

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Road Warrior Presenter

- **ASTOUND 2.0** MULTIMEDIA PRESENTATION SOFTWARE
  - Slide Sorter Feature
  - Multimedia Effects Built-in to Templates
  - Import Microsoft Powerpoint or Lotus Freelance Presentations
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  - 40 ft. Remote Range
  - Plugs directly into mouse port
  - No Special Software Drivers
- **MULTIPRO CTV** EXTERNAL SCAN CONVERTER FOR COMPTER TO NTSC (TV) OR S-VIDEO OUTPUT
  - Supports 640X480 resolution, up to 16,7 million colors
  - Simultaneous TV & VGA Monitor Display
  - Freeze & Grab TV Images for graphic uses
  - Screen Display adjustments with Over/Underscan Controls

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- Watch TV on your computer with 181 channel TV Tuner
- Stereo Jack for connection to Speakers
- 20 Preset FM Radio Tuner
- 100% SoundBlaster compatible
- Toll Free Technical Support

TVR-202

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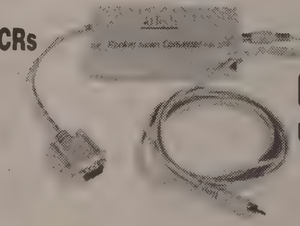
Pocket Scan Converter PSC-1106

Play PC Games on TV!!
Converts VGA to TV or VCRs
UP to 16.7 Million Colors



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- Horizontal Sync. 31.5KHz
- Up to 640X480 Screen Resolution

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Portrait/1700
For PC & MAC

Portrait
Display Labs

17" 1280x1024 SVGA Color PIVOT Monitor

- Pivots between portrait and landscape modes
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- Includes *MacPortrait*™ & *WinPortrait*™ video driver software and necessary cables

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matrox MATROX MGA POWER GRAPHICS

In Stock!

Introducing MGA Millennium: The new dimension in graphics acceleration

NEW!

Fast acceleration for graphics, video and 3D at a low cost

- Includes FREE enhanced version of NASCAR® Racing and much more!
- MGA 64-bit graphics processor (MGA-2064W)
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- Optimized PCI local bus design
- Accelerated true color, video, 3D and DOS performance
- Resolutions up to 1600x1200 in 256, 65K, 16.7M colors
- 120 Hz flicker-free screen refresh at 1024x768
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- Upgradable to 4 or 8MB WRAM

2MB PCI version	4MB PCI version
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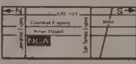

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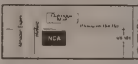

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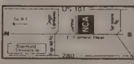

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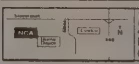

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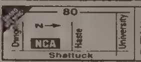

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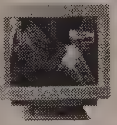

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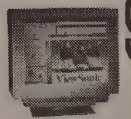
- .27mm dot pitch
- 50-160Hz refresh
- Non-interlaced, TCO
- 3 year warranty



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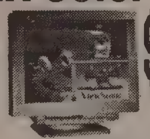
21" SVGA Color Monitor

- 1600x1200
- .25dp
- 68Hz refresh
- Non-Interlaced



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15" Trinitron SVGA Color Monitor

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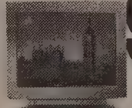

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Stealth 64 Video 2121XL PCI

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- Up 16.7 million colors
- Plug and Play installation

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- Includes FREE CD-ROM with exclusive Virtua Fighter Remix
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VISTA *PCI*

64-bitVideo Graphic Accelerator Card

- 64-bit ARK 2000 graphics accelerator
- Resolutions to 1600X1200
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- 16.7 million colors
- Windows 95, NT & os/2 drivers
- Virtual Desktop

PCI

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MILLENIUM PCI

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- New Dual Ported WRAM memory technology
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- Upgradeable to 4 or 8MB WRAM
- Supports all popular resolutions from 640X480 to 1600X1200
- Accelerates 256, 65,000 and 16.7 million colors

2MB WRAM **$329.95**

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Hercules

The Fastest Real-World Windows Accelerator

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STINGRAY 64 VIDEO

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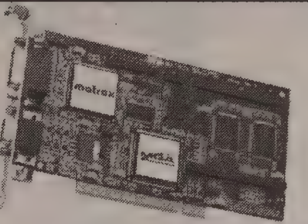
- Faster Windows and DOS performance

PCI *S1201V-1MB DRAM* **$139.95**



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Excellence in PC Graphics

9FX MOTION 531 PCI/VLB

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- S3868 Chipset
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- 135MHz max. dot clock

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2MB DRAM **$215.95**

9FX MOTION 331 PCI EDO RAM

Video Graphic Accelerator Card

- S3trio64V+ Chipset
- Up to 1280X1024
- Resolution exchange
- True hardware zoom
- Instant status
- ColorPerfect
- Monitor adjustment

1MB DRAM **$169.95** NEW!

2MB DRAM **$219.95**

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- Custom 128-bit Chipset
- New performance standard w/128-bit accleration
- Drawing bandwidth up to 500 million pixels per second
- Two memory windows for simultaneous host and Imagine 128 access
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4MB VRAM **$879.95**

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- Coachmarked and task-assisted AppleGuide implementation
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- 2MB upgradeable to 4MB VRAM
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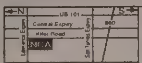

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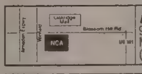

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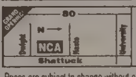

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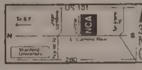

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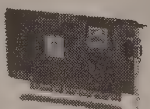
GRAPHICS PRO TURBO

Ultimate True Color Performance For The Graphics and Multimedia Professional

- All ATI graphics accelerators are optimized for Windows '95 application performance.
- PCI version features plug and play support for Windows '95 and is a licensed Windows '95 product
- Ideal for CAD users, designers, and power users
- High performance 64-bit graphics acceleration
- Vivid true color graphics and sharp image definition
- Up to 16.7 million colors at 1280x1024 (800x600 for 2MB)
- Up to 100Hz refresh rates to help reduce eyestrain
- 2MB (upgradable) and 4MB VRAM
- Extensive Windows utilities

mach64



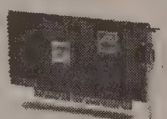
2MB VRAM *PCI, ISA,VLB* **$319.95**

4MB VRAM *PCI, ISA,VLB* **$445.95**

GRAPHICS XPRESSION

Value Packed 64-bit Graphics and Multimedia Perfomance

- Ideal for Windows or games users
- Fast 64-bit graphics acceleration
- Brilliant colors and sharp images
- Up to 16.7 million colors at 800x600 (with 2MB)
- Up to 75Hz refresh rates to help reduce eyestrain
- 1MB (upgradable) and 2MB DRAM
- Extensive Windows utilities
- Optimized for superior Windows '95 performance
- PCI, VLB and ISA versions



2MB DRAM *PCI, ISA* **$199.95**

WINTURBO

Fast 64-bit VRAM Graphics Accelerator

- Ideal for users who need fast performance at an affordable price
- Ultra fast 64-bit graphics acceleration
- Vivid colors and sharp image definition
- Up to 16.7 million colors at 800x600
- Up to 100Hz refresh rates to help reduce eye strain
- 2MB VRAM (non upgradable)
- Extensive Windows utilities
- Optimized for superior Windows '95 performance
- PCI, VLB, and ISA versions

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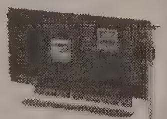

2MB VRAM *PCI, ISA,VLB* **$275.95**

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True Color Graphics Accelerator For Macintosh Design and Publishing Professionals

- Designed specifically for the Power Macintosh 9500
- Superior 64-bit acceleration
- Vivid true color graphics and sharp image definition
- Coachmarked and task-assisted AppleGuide implementation
- Up to 16.7 million colors at 1152x870 (832x624 for 2MB)
- High refresh rates to reduce eye strain
- 2MB (upgradable) and 4MB VRAM
- Comprehensive control panel for frequently used features

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2MB VRAM *Macintosh PCI* **$349.95**

4MB VRAM *Macintosh PCI* **$475.95**

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4800x4800 DPI 24-Bit Color Flat Bed Scanner

NEW SINGLE PASS SCANNER **A6000C PLUS**

INCLUDES
- **SCSI-II/PC**
- A6000C-Viewstation
- 8.5"x14" scanning area
- 4800x4800 dpi through software interpolation
- Intelligent LCD panel
- Long lasting cold cathode lamp
- 16.8 million colors
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Includes PC Software

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2400x2400 DPI 24-Bit Color Flat Bed Scanner

A6000C-PC

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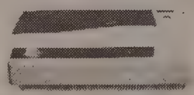
- **SCSI-II/PC or Mac**
- A6000C-Viewstation
- 8.5"x14" scanning area
- 2400x2400 dpi through software interpolation
- Intelligent LCD panel
- Long lasting cold cathode lamp
- 16.8 million colors
- 256 grayscale levels

Includes Both PC & Mac Software



PC or Mac **$329.95**

Handheld 256 Grayscale Scanner Kit for Windows

INCLUDES

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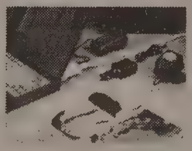
ViewScan™ /gray 256
Missing Line Compensation
TWAIN Compatible

•SOFTWARE

-WalkScan™ Boardless Scanner Adaptor for Portables and Desktop PCs
-GO-CR - OCR Software
-PhotoStacker Plus - JPEG Image Processing Software with AutoStitch



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Handheld 256 Grayscale Scanner

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- 800dpi
- 105mm scanning width
- GO-CR - OCR Software
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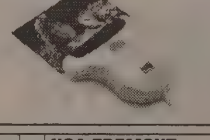
Handheld True 16.7 Million Color Scanner Kit for Windows

INCLUDES

•SCANNER

-ViewScan™ Color 16M A2000C
-Missing Line Compensation
-MagicStitch & TWAIN Compatible



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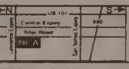

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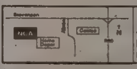

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40521 Albrae St. (Next to HOME DEPOT)
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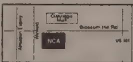
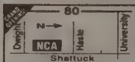
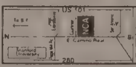


NCA SAN JOSE OPEN TILL 8:00 PM M-F
962 Blossom Hill Rd (Across Oakridge Mall)
Mon-Fri 10am-8pm; Sat-Sun 10am-7pm
(408) 363-4600 Fax (408) 363-4610



NCA BERKELEY OPEN TILL 8:00 PM M-F
2480 Shattuck Ave (between Haste & Dwight)
Mon-Fri 10am-8pm, Sat-Sun 10am-7pm
(510) 841-9091 Fax (510)-841-1013



NCA PALO ALTO OPEN TILL 8:00 PM M-F
3825 El CAMINO REAL (Curtner & El Camino)
Mon-Fri 10am-8pm, Sat-Sun 10am-7pm
(415) 493-2444 Fax (415)-493-2480

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(408) 522-5066
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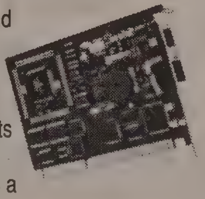
(14)

COMMUNICATIONS

FAX / MODEMS

MOTOROLA #1 Name in Communications!

Internal ISDN Terminal Adapter - Bitsurfr *PRO*



- Multilink PPP provides 115.2K Kb/sec asynch throughput and synch BONDING protocols offer 128K Kb/sec
- Supports two analog POTS PORTS
- More than twice as fast as the fastest modem
- Access all Internet services at super speeds: over 70,000 bits per second every time
- Acts like a modem, looks like a modem, sets up as easily as a modem...but connects at ISDN speeds
- Simultaneous voice and data on a single ISDN line
- Download digital video clips, music, speeches, high resolution color photographs from the World Wide Web and other Internet services
- Send and receive massive data files fast: desktop publishing documents, spreadsheets, engineering data
- Play interactive games without annoying delays
- Everything you need for ISDN - built in NTI and ISDN line ordering codes
- Works with AT compatible software

NEW!

Bonding for up to 128Kb/s

Windows 95® READY!

$279.95

Bitsurfr Pro External $359.95

14.4bps PCMCIA Cellular Modem

- PCMCIA release 2.0 and above, Type II compliant
- Credit card size
- High speed fax modem
- Data rates - 14.4 kpbs to 300 bps; V.32bis, V.32, V.22bis, V.22, Bell 103
- Remote configuration
- V.42bis data compression protocol
- Hayes AT command set compatible
- Low power standby modes provide maximum battery life
- Send/receive faxes at 14.4, 12, 9.6, 7.2, 4.8, and 2.4 kbps
- Fully ITU Group III compatible
- Compliant with ITU and Bell standards to communicate with a large installed base of modems
- Allows configuration of unattended remote modems
- Increases throughput to up to 57,000 bps

* Direct connect to Motorola MC² cellular phones manufactured after 6/92

No Cellular Adapter Required

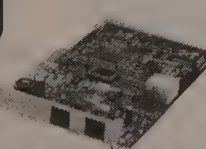
$109.95

ModemSURFR 28.8Kbps Data/Fax Modem

- V.42bis and MNP 5 provides data compression and transmission rate up to 115.2Kbps
- Automatic baud rate adaptation adjusts for poor or noisy line conditions
- Caller ID lets you identify callers before answering*
- Bundled with popular online software, children's educational CD-ROM and hot, new video games for the entire family
- Full five year warranty

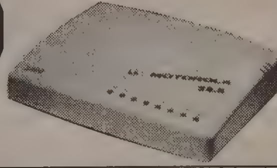
PC INTERNAL

$184.95



PC EXTERNAL

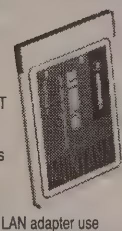
$189.95



MOTOROLA PCMCIA Products

28.8Kbps Modem/FAX/LAN PCMCIA Card

MONTANA

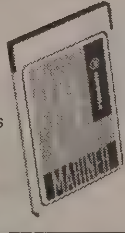


- 28.8Kbps, V.34
- High-performance LAN access for 10Base-T or 10Base-2
- Connectivity to leading Cellular phones & pagers
- Flash Upgradeable
- "Installation engine" for " Hassle-Free" install
- Simultaneous Modem & LAN adapter use

$409.95

28.8Kbps Modem/FAX PCMCIA Card

MARINER



- 28.8Kbps, V.34
- Connectivity to Cellular phones
- Send and receive messages to/from Motorola Advisor pagers and the innovative Tango two-way pager
- Flash Upgradeable
- "Installation engine" for " Hassle-Free" install

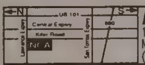
$249.95

NCA® Computer Products

Your Computer Upgrade *SUPERMARKET*™

VISA MasterCard DISCOVER American Express Card ATM

Expires 3-31-96



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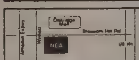
Mon-Fri 9am-9pm; Sat 9am-8pm Sun 10am-7pm
(408) 739-9010 Fax (408) 739-2420
OPEN TILL 9:00 PM M-F



NCA SAN JOSE
962 Blossom Hill Rd (Across Oakridge Mall)
Mon-Fri 10am-8pm, Sat-Sun 10am-7pm
(408) 363-4600 Fax (408) 363-4610
OPEN TILL 8:00 PM M-F

US 101
NCA
El Camino Real
N
S
280

NCA PALO ALTO
3825 EI CAMINO REAL (Curtner & El Camino)
Mon-Fri 10am-8pm, Sat-Sun 10am-7pm
(415) 493-2444 Fax (415)-493-2480
OPEN TILL 8:00 PM M-F

NCA
Home Depot
Costco
N

NCA FREMONT
40521 Albrae St (Next to HOME DEPOT)
Mon-Fri 10am-8pm, Sat-Sun 10am-7pm
(510) 249-0850 Fax (510) 249-0855
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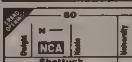

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(15)

M14

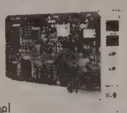
COMMUNICATIONS

USRobotics®

The Intelligent Choice in Data Communications

Sportster 28.8 Vi DSVD NEW!

DIGITAL SIMULTANEOUS VOICE & DATA With *True V.34*
- New technology allows data & voice conferencing simultaneously over one phone line
- Work together on Windows documents from PCs in different locations
- Share and update information stored on either PC
- Connect quickly with speed dialing & built-in phone book
- Includes familiar, easy-to-use notebook interface
- Great for interactive gaming
- Includes FREE Internet connection kit
- Includes Intel Pro Share Personal Conferencing Software - a $299 value!



Includes FREE Internet connection kit!

$\$288^{95}$

Sportster ISDN 128K

HIGH SPEED INTERNET ACCESS & TELECOMMUTING
- Multilink PPP combines the two 64 Kbps B-channels of an ISDN BR1 line into a single 128 Kbps channel
- Multiple compression types (Stac®, Microsoft®, & Ascend®)
- Windows® 95 enhancements
- Integrated analog device port
- Full ringing support
- Simultaneous voice & data
- Dynamic voice override
- Integrated NT-1
- TAPI (Telephony Applications Programming Interface)
- Multiple interfaces including NDIS, ODI (for IPX), Packet Driver, WinISDN (for Internet access), Windows® 95 & TAPI interfaces allow Sportster ISDN 128K to be used with today's most popular, off-the-shelf Internet, remote LAN access, and data communications software packages

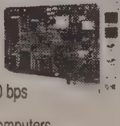
NEW!

Includes FREE Internet connection kit!

$\$389^{95}$

Sportster 14.4 Vi With Personal Voice Mail

YOUR PERSONAL OFFICE MESSAGE CENTER
- ITU V.32 *bis* 14,400 bps data
- Turn your PC into an advanced voice mail system
- Send and receive faxes directly from your computer
- Fax on demand and remote fax retrieval
- V.42 *bis*/MNP 5 data compression for throughput up to 57,600 bps
- 16550 UART for high-speed Windows connections
- Internal half-card modem for IBM PC and 100% compatible computers



$\$111^{95}$

Sportster 28.8 Vi With Personal Voice Mail

YOUR PERSONAL OFFICE MESSAGE CENTER
- **Plug & Play!**
- True ITU-T V.34 28,800 bps data
- Turn your PC into an advanced voice mail system
- Send and receive faxes directly from your computer
- Fax on demand and remote fax retrieval
- V.42 *bis*/MNP 5 data compression for throughput up to 115,200 bps
- 16550 UART for high-speed Windows connections
- Internal modem for IBM PC and 100% compatible computers

Includes FREE Internet connection kit!

$\$211^{95}$

External .... $\$227^{95}$

14.4 Sportster V.32/V.42 Internal/External	$\$97^{95}/\$111^{95}$
28.8 Sportster V.34 Internal/External - Plug & Play!	$\$189^{95}/\$210^{95}$
Courier V.Everything w/ V.34 - NEW!	$\$399^{95}$
Courier RI - ISDN Terminal Adapter	$\$571^{95}$
14.4 Sportster PCMCIA fax/modem	$\$188^{95}$
28.8 V.34 PCMCIA fax/modem w/ data view	$\$331^{95}$
Mac & Fax 14.4bps external modem for Mac	$\$121^{95}$
Mac & Fax 28.8bps V.34 external modem for Mac	$\$211^{95}$
28.8bps V.34 & 33.6bps fax/modem for Mac	$CALL
28.8bps V.34 & 33.6bps fax/modem w/voice mail for Mac	$CALL

CELL PHONES & PAGERS

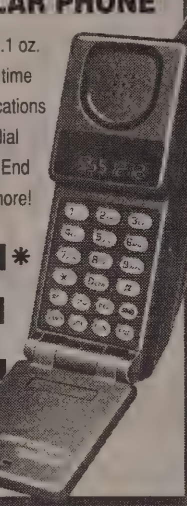
NCA WIRELESS

NCA's New Cellular and Paging Division, Specializing in Phones, Pagers, Accessories and Mobile Communications!

Largest Selection Of Phones & Accessories!

MOTOROLA DPC-550 CELLULAR PHONE

- Lightweight 12.1 oz.
- 75 minute talk time
- 30 memory locations
- Automatic Redial
- Flip Answer & End
- Call Timer & more!



$FREE*

WHILE SUPPLIES LAST

AT&T 6650 CELLULAR PHONE

FREE CIGARETTE LIGHTER ADAPTER

- SUPER LIGHTWEIGHT
- Digital & Analog modes allow 2 times the cellular network access
- 125 name memory
- 74 minutes talk time 24 hours standby time

$\$10^{79}$** PER MONTH OR $259*

MOTOROLA MICRO-TAC ELITE CELLULAR PHONE WITH BUILT-IN ANSWERING MACHINE

- BUILT-IN ANSWERING MACHINE
- Exceptionally Light-weight
- Choice of nine ringer tones
- Built-in Rapid Charger
- Slim NiCad Battery
- Cigarette lighter adapter
- Headset, Vibracall, Lithium Ion Battery

(Smallest Phone on the Market!)

$\$599^{95}$*

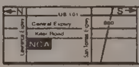
FREE CIGARETTE LIGHTER ADAPTER

*On selected Cellular Activation Service Plans, price slightly higher without activation. **24 Month Financing with approval for a minimum period. Adequate insurance required. Tax NOT included. Some restrictions apply. No dealers or resellers please. Service Activation NOT required to purchase phone. While supplies last.

NCA® Computer Products

Your Computer Upgrade *SUPERMARKET*™

VISA MasterCard DISCOVER American Express Card ATM Expires 3-31-96



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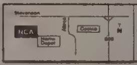

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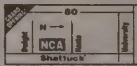

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(16)

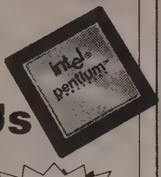
M13

BOARDS, RAM, ETC.

CPU's, MEMORY & SIMMS

Intel CPUs

486DX2-66MHz	Pentium 100MHz
486DX4-75MHz	Pentium 120MHz
486DX4-100MHz	Pentium 133MHz
Pentium 75MHz	Pentium 150MHz
Pentium 90MHz	Pentium 166MHz

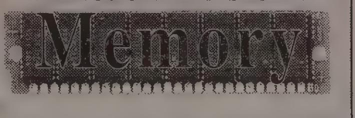


AMD CPUs

AMD486DX2-66MHz
AMD486DX2-80MHz
AMD486DX4-100MHz
AMD486DX4-120MHz
AMD486DX4-133MHz

*LOW PRICE GUARANTEE**

Macintosh



1MBX8	70ns	8Chip	$Call
4MBX8	70ns	8Chip	$Call
4MBX8	60ns	8Chip	$Call
16MBX8	70ns	8Chip	$Call

32-Bit Memory for Quadra 800, Centris, LCIII & Power PC's

2MB Module	$Call
4MB Module	$Call
8MB Module	$Call
16MB Module	$Call

MAC MEMORY INSTALLATION

Installation $15
(excluding Powerbooks)

POWERBOOK MEMORY

Call for Latest Pricing

IBM COMPATIBLE MEMORY

1MBX9	70ns	3Chip	$Call
1MBX9	70ns	9Chip	$Call
1MBX9	60ns	3Chip	$Call
1MBX9	60ns	9Chip	$Call
4MBX9	70ns	3Chip	$Call
4MBX9	70ns	9Chip	$Call
4MBX9	60ns	9Chip	$Call
16MBX9	70ns	9Chip	$Call

72-PIN MEMORY SIMMS

2MB 604-70ns/60ns	$Call
4MB 1X36-70ns/60ns	$Call
8MB 2X36-70ns/60ns	$Call
16MB 4X36 70ns/60ns	$Call
32MB 8X36 70ns/60ns	$Call

72-PIN EDO MEMORY SIMMS

4MB 1X32/60ns EDO	$Call
4MB 1X32/70ns EDO	$Call
8MB 2X32/60ns EDO	$Call
8MB 2X32/70ns EDO	$Call
16MB 4X32/60ns EDO	$Call
16MB 4X32/70ns EDO	$Call
32MB 8X32/60ns EDO	$Call
32MB 8X32/70ns EDO	$Call

SIMM EXPANDERS

30 PIN SIMM CONVERTER- converts four 30 pin SIMMS into One 72 pin SIMM! Models A, B, C & D, Low/High profile, Right/Left facing

$24.95 ea

PCMCIA FLASH CARDS

NEW •Lower Prices•

PCMCIA Mass Storage For Mobile Computers

Seagate

SunDisk
The Solid Advantage

Call for Latest Pricing

CACHE MEMORY

32X8-20ns	$5.95
8X8-20ns	$Call
8X8-15ns	$Call
32X8-15ns	$Call
64X8-20ns	$Call
64X8-15ns	$Call
256X8-15ns	$Call
256X8-20ns	$Call
Burst Cache	$Call

HEWLETT PACKARD

Laser Printers, DeskJet Printers

PRINTER ACCESSORIES:

TONER CARTRIDGES • TRAYS / FEEDERS

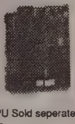
MEMORY MODULES

MOTHERBOARDS

NCA's High Quality PCI UMC Chipset

486DX MOTHERBOARD PCI

- 3 PCI SLOTS
- USES 72 PIN SIMMS
- AWARD BIOS
- SUPPORTS DX4
- 256K CACHE
- 0MB EXP. TO 64MB RAM
- ZIF SOCKET
- UMC CHIPSET
- INTEGRATED Enhanced IDE



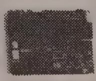
CPU Sold seperately

$109.95

NCA's Premier/PCI ALI Chipset

486DX MOTHERBOARD PCI

- 3 VESA LOCAL BUS SLOTS
- **256K CACHE**
- 0MB EXP. TO 64MB RAM
- ZIF SOCKET
- ALI CHIPSET
- USES 30 OR 72 PIN SIMMS
- AWARD BIOS
- SUPPORTS DX4



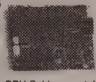
CPU Sold seperately

$119.95

NCA's Premier/VLB OPTI Chipset

486DX MOTHERBOARD VESA LOCAL BUS

- 3 VESA LOCAL BUS SLOTS
- **256K CACHE**
- 0MB EXP. TO 64MB RAM
- ZIF SOCKET
- OPTI CHIPSET
- USES 30 OR 72 PIN SIMMS
- AWARD BIOS
- SUPPORTS DX4



CPU Sold seperately

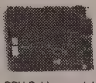
$99.95

128K CACHE - $89.95 • 0K CACHE VERSION - $69.95

NCA's Premier/VLB UMC Chipset

486DX MOTHERBOARD VESA LOCAL BUS

- 3 VESA LOCAL BUS SLOTS
- **256K CACHE**
- 0MB EXP. TO 64MB RAM
- ZIF SOCKET
- UMC CHIPSET
- USES 30 OR 72 PIN SIMMS
- AWARD BIOS
- SUPPORTS DX4



CPU Sold seperately

$89.95

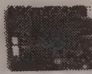
128K CACHE - $79.95 • 0K CACHE VERSION - $59.95

Intel **ENDEAVOR**

PENTIUM™ 75-THRU 166MHZ

TRITON PCI WITH 256K PIPELINE BURST CACHE

- **INTEGRATED EIDE-I/O**
- **TRITON Chipset**
- 256K Cache
- 0MB EXP. TO 128MB
- Integrated Vibra 16S Audio Controller
- Flash BIOS
- SOCKET 7



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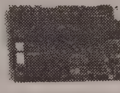

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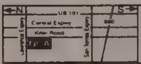

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(17)

Product Spotlight

Updates

Apple announced the availability and shipment of **Newton Toolkit 1.6** for the Mac OS and a set of application programming interfaces, the **Desktop Integration Libraries**, for both the Mac OS and Windows. The Toolkit is available for $299; the Desktop Integration Libraries are free from *http://dev.info.apple.com/newton/tools* . Apple Computer, Inc., 1 Infinite Loop, Cupertino, CA 95014. 1-800-282-2732.

Brainstorm Technologies released **v2.0 of OfficeLink for Lotus Notes**. The new version adds extended support for rich text, conflict resolution, and full-text search to this product that links Microsoft Office applications with Lotus Notes. SRP is $99 per client; server pricing begins at $199. Brainstorm Technologies, Inc., 64 Sidney St., Cambridge, MA 02139. (617)621-0800.

dataDisc is shipping **QuickSearch 3.0**, the revolutionary new version of its electronic document publishing software. The QuickSearch Authoring Kit is available for $595. dataDisc, 10334 Battleview Pkwy., Manassas, VA 22110. (703)331-2200.

DKSystems released **DKHelp for Windows v2.0**, a new version of its internal help desk software product that adds the ability to script auto-prompts, track outages, manage projects, and more. DKHelpDesk costs $1995 for a single user, $5495 for five users, and $4000 per additional five-user license. DKSystems, 1-800-892-5332 or (312)644-2700.

ForeFront announced the **ForeHelp 2.95** Help Authoring System designed for Windows 95. New features include expandable and navigable contents pages, multilevel keyword search across multiple indexes, and more. It is available for $395; upgrades from v2 are $89. ForeFront, Inc., 4710 Table Mesa Dr., Suite B, Boulder, CO 80303. (303)499-9181.

Hewlett-Packard slashed the price of its **10/100VG Selectable PCI LAN Adapter** by as much as 29%. Prices range from $189 for a single adapter to $148 per adapter in a 24-pack. Hewlett-Packard Co., 3000 Hanover St., Palo Alto, CA 94304. 1-800-533-1333 or *http://www.hp.com* .

MicroNet has **reduced the suggested retail price of Master CD Plus**, an affordable CD recording system for the Macintosh, to $1195, and for a limited time is including Disc-to-Disk audio capture software free of charge. MicroNet Technology, Inc., 80 Technology, Irvine, CA 92718. (714)453-6000.

Mindscape is shipping **World Atlas v6** and **US Atlas v6**, the latest versions of its multimedia reference programs that combine hundreds of up-to-date maps with satellite photography, 3-D geographic detailing, and a database of almanac information. They are each available for Windows 95/3.1 and Macintosh for an estimated street price of $35. Mindscape, Inc., 88 Rowland Way, Novato, CA 94945. (415)897-9900.

O'Reilly & Associates announced the release of **WebSite 1.1**, an upgrade to its 32-bit, multithreaded World Wide Web server for Windows NT and 95. The new version lists for $499; upgrades from v1.0 are $55 if purchased before October 1, 1995, and free if purchased after October 1. O'Reilly & Associates, 101 Morris St., Sebastopol, CA 95472-9902. 1-800-998-9938 or *http://www.ora.com* .

Vexcel released **v2.0 of FotoG-FMS**, the latest version of its advanced close-range photogrammetry software for MicroStation CAD. It is available for $10,000 Vexcel Corp., 2477 55th St., Boulder, CO 80301. (303)444-0094 or *http://www.vexcel.com* .

Xinet has upgraded FullPress, its leading OPI server solution. **FullPress 8.07** includes a new Macintosh print queue management application called Queue Master. Prices range from $7500 for a six-user license to $25,000 for a 128-user license. Xinet, Inc., 2560 Ninth St., Suite 312, Berkeley, CA 94710. (510)845-0555, *sales@xinet.com*, or *http://www.xinet.com* .

Product Announcements

Notebook

Wedge ShowBIZ

The Wedge ShowBIZ is a combination multimedia notebook computer and overhead projection panel. It supports all 486 CPUs up to 100MHz and up to 32MB of RAM, and has a VESA local bus, removable hard drive, removable floppy drive that is interchangeable with a secondary battery pack, built-in trackball, two PCMCIA slots, and enhanced serial and parallel ports. The 10.3", 1024 x 768 screen features a removable backlit panel that allows the ShowBIZ to be used with overhead projectors. An optional docking station provides three 16-bit ISA slots, an 8-watt audio amplifier, two serial and one parallel ports, a line -in and line-out jack, a CD-ROM bay, and a 3.5" hard drive bay. (starts at $2999) Wedge Technology, Inc., 1657 McCandless Dr., Milpitas, CA 95035. (408)263-9888.

Scanner

Envisions 4cx

The Envisions 4cx is a high-end single-pass scanner that can capture up to 32 bits of data for each pixel. It has an optical resolution of 600 x 1200dpi, but it produces a base resolution of 1200 x 1200dpi through signal mirroring. When used with the included DynaScan 3.0 Twain software (compatible with Windows 3.1, 95, and Macintosh), it can scan at resolutions up to 9600dpi. The 4cx also features a 256K input/ output cache; a full-spectrum cold bulb light source; and a SCSI-2, ASPI-compliant interface. The unit comes bundled with Adobe Photoshop 3.0, Xerox TextBridge 3.0, Kai's Power Tools 3.0, and Alta Vista MediaWrangler Pro. The Windows version comes with a switchless DynaSCSI 16-bit interface card. ($899) EnvisionsSolutions Technology, Inc., 47400 Seabridge Dr., Fremont, CA 94538-6549. (510)661-4300.

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	4GB SCSI/WSCSI	$969/$999
WD	1.2GB/1.6GB IDE	$269/$289
Seagate	4GB SCSI/WSCSI	$999/$1150
Fuji	1GB SCSI/WSCSI	$259/$269

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	5EP	17" .28 NI LR	$619
KFC		15" .28 1024x768	$305
		17" .28 1280x1024	$569
MAG	DX15F	15" .28 1028x768	$349
	DX1795	17" .26 1280x1024	$669
Sony	15SFII	15" .28 1280x1024	$489
	17SFII	17" .28 1280x1024	$869
NEC	XV+ 15	15"	$479
	XP17	17"	$1049
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Viewsonic	14ES	14" .28 1024x768	$269
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HP	ScanJet 4C	$929
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Microtek	Scanmaker IISP	$479
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MULTIMEDIA & CD-ROM

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NEC	CDR 6XI CD-ROM	$339
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	4X Backpack s/sound	$449
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Syquest	EZ Drive 135 IDE/SCSI	$199/$239

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Adaptec	1505/1510A SCSI /CD	$59/$69
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	2742/2842 SCSI	$345/$199
	2940/2940W PCI/SCSI	$219/$259
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Buslogic	545C/ 445C ISA/VL	$199/$199
	747S/946C EISA/PCI	$329/$225
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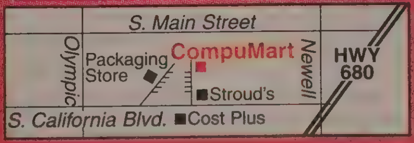
Promise	EIDE2300+/EIDEMAX	$49/$39
DTC	SCSI 3150V/3130 PCI	$39/$99



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Product Reviews

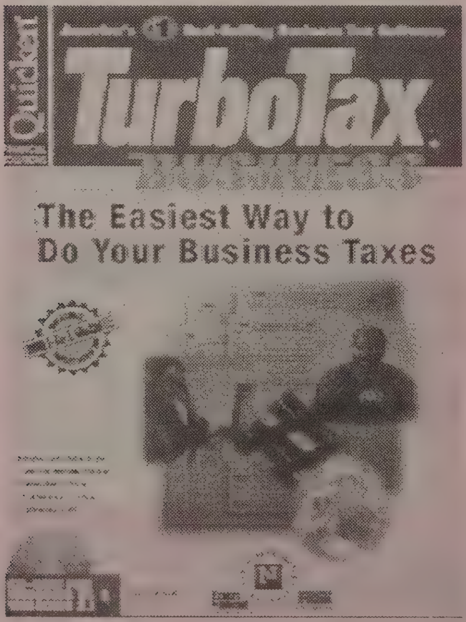
PC Software Reviews

TurboTax For Business

Published By: Intuit, Inc.
List Price: $69.95 (CD-ROM for Windows)
Reviewed By: Woody Liswood

If you have a business, small or otherwise, you will want this CD-ROM. While it includes the software for a sole proprietorship, an S corporation, a C corporation, and a partnership on a single CD, the forms for only one category of business are available when you first install it. But a phone call (and payment) will make the others available, if needed.

The interface is essentially identical to the TurboTax individual tax product. The program takes you through an interview to obtain the information it needs to complete your tax returns. Context-sensitive help offers tax advice and tax savings suggestions as you work through your returns. Audit Flags are offered to help you run your business more effectively for tax purposes and (hopefully) prevent you from doing something that attracts the attention of an IRS auditor. In addition, all the major IRS business publications are available for you to read online.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If you've been in business for years, know your business and your accounting practices, and don't want to spend the money on a tax expert, TurboTax for Business will save you time preparing your taxes. If you are new to business and don't understand all the ins and outs of doing your own taxes, this program will help teach you about the tax code and will probably save you significant time and money in working with the tax professional of your choice. TurboTax for Business is a necessary part of any SOHO business. (Intuit, Inc., 415/944-6000)

TurboTax For Windows 1995

Published By: Intuit, Inc.
List Price: $34.95; Deluxe version CD-ROM, $49.95
Reviewed By: Woody Liswood

TurboTax has consistently been one of the best selling tax preparation programs for personal computers. This year, TurboTax has changed the interface and improved the interview format. It also supports state tax returns for all states that require tax returns.

TurboTax offers you the choice of preparing your taxes by either going through an interview process or by selecting the appropriate forms yourself. There are two ways to work through the interview: the standard method is designed for those new to doing their income taxes, and the other, called Fast Track, is for users who are comfortable with all of the tax terms. The Fast Track begins by asking which forms you received during the year, such as W2 and 1099, then begins working on your taxes.

As you enter data into the program, the TurboTax Advisor notifies you if it thinks something is missing or wrong. For example, it will let you know if you paid too much into FICA. For 1995, the maximum you should have paid was $3794.40. TurboTax also informs you that the IRS does not refund any FICA overpayment if it was withheld from a single employer. The employer is responsible for the refund.

The main TurboTax screen shows seven tabs across the top. The sixth tab activates the state return software. If you purchase the software for your state, it will automatically retrieve the appropriate numbers from your federal return and ask if any adjustments need to be made.

TurboTax includes a copy of Netscape's Web browser. Since I already had Netscape on my computer, I did not install it. With the click of a button, TurboTax will launch Netscape and connect to Intuit's Web site. There is a significant amount of information available. For instance, there are excerpts from the tax advice contained on the TurboTax CD-ROM. You can also purchase your state software and download it through the Web site.

A note about filing electronically: To insure that the forms comply with the IRS requirements for electronic filing, TurboTax warns you *not* to override anything in the program. Overrides mean that you have potentially jeopardized the accuracy of TurboTax's calculations, so TurboTax assumes your tax return is incorrect and will not let you file electronically. Also, you cannot use the individual version to file more than one return electronically. If you do returns for anyone else and want to offer electronic filing, you will need to get the professional version.

TurboTax for Windows is still my favorite tax return program. This year it is easier to use than ever. (Intuit., Inc. 415/944-6000)

Multimedia Software Reviews

Flo' Freeform Plasticity v2.0

Published By: The Valis Group
For: Windows, Windows NT, Power Macintosh
List Price: $199
Reviewed By: Pamela Mason

Flo' is different from many warping and morphing packages because it has no grids to manipulate and does not involve switching between source and destination images; all manipulating is done directly on the image you wish to change. Creating warps and distortions of still images is as simple as drawing a perimeter line around the area you want to distort, then clicking and dragging on the handles. Warps and distortions can easily be animated

continued on page 292

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- ✔ Keytronic KB, Sound Blaster 16 Bit
- ✔ **Full Tower Case** w/ 250 Watt P.S.
- ✔ TEAC 1.44 MB - Microsoft Mouse

4,340 / 4,640

INTEL Pentium® 150/166Mhz

- ✔ **INTEL ALANTIS P5 586- 150/166Mhz**
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- ✔ **ATI Graphics PCI w/ 2 MB of Dram**
- ✔ Keytronic 101 Enhanced Keyboard
- ✔ **Full Tower Case** w/ 250 Watt P.S.
- ✔ TEAC 1.44 MB - Microsoft Mouse

2,160 / 2,560

INTEL ® 75/100/133/166 Mhz

- ✔ **INTEL Endeavor P5 75/100/133/166Mhz**
- ✔ 256KB PipeLine Brust Cache FAST
- ✔ **16MB of RAM 70ns (72 Pin SIMM)**
- ✔ **Toshiba 4X EIDE CDROM Drive**
- ✔ **Sound Blaster 16 Bit Built-in**
- ✔ **Maxtor 1.2 GIBYTE Fast IDE**
- ✔ 2 HS 16550 UART COM Port, 1P Built-in
- ✔ **Diamond Stealth 64 PCI w/ 2MB Dram**
- ✔ Keytronic 101 Enhanced Keyboard
- ✔ **Middle Tower Case** w/ 230 Watt P.S.
- ✔ Teac 1.44 MB - Microsoft Mouse

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- ✔ **8MB of RAM 70ns (72 Pin SIMM)**
- ✔ **Toshiba 4X EIDE CDROM Drive**
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- ✔ **Dash AMD 486DX2-80Mhz VLB**
- ✔ 256KB Cache MotherBoard
- ✔ **4 MB of RAM 70ns**
- ✔ IDE VLB 2HD/2FD w/ 2S/1P/1G Port
- ✔ TEAC 1.44 MB - Hires Mouse
- ✔ **Maxtor 540 IDE Hard Disk**
- ✔ **Cirrus Logic VLB 1MB (no monitor)**
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Wow! $ 620

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* **486DX2- 66** (Active Matrix)	**$ 2,155**
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* **486DX4-100** (Active Matrix)	**$ 2,265**

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3C509-16 Etherlink III 16 bit COMBO	$ CALL
COMPULAN	
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NE 200E 16 bit Coax	$ CALL
HUB	
Hub 8 Port TP	$ CALL
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Wisecom 28.8K V.32 bis, V.42 bis I/E	$135
US Robotics Sportster 14.4K I/E	$98/120
US Robotics Sportster 28.8 V34 I/E	$210/235
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Megahertz PCMCIA XJ2144	$245

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Simms Saver Adapter from 32Pin to 72Pin	$29
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Gulch GOSSIP

by Jonathan E.

For the latest **CD-ROM** and **software** news & reviews, see our **New Products** section starting on **page 224**

DIGITAL STORYTELLING @ MACWORLD

I was suffering from a horrible attack of poison oak over the Macworld hoo-hah-hah, and thus attended very little of it. However, **Mark Petrakis aka Spoonman** kindly agreed to contribute words about the evening of digital storytelling. Spoonman can be emailed at *spoon@well.com* if you want to know more. He'll have a new Web page up soon, perhaps already, but the URL is unknown as I write. The Spoon's words follow:

2nd annual
Greetings from
1996
Crested Butte, Colorado October 4–6, 1996
digital storytelling festival

"Computer hardware companies have long suspected that there is a huge potential market out there for digital resurrection of the hoards of personal snapshots and home videos that so many of us have buried in boxes, envelopes, and other analog caches. Some visionaries in the Valley are now attempting to jump-start this new market by promoting the work of storytellers who already use multimedia technology to add depth and support to the speech of their live performances.

"**Dana Atchley**, along with his cohorts at the **San Francisco Digital Media Center** (415/824-9394, email to *sfdmc@well.com*), has long pioneered the use of digital desktop media for personal storytelling. After years of bucking the odds, Dana has caught a tailwind lately. Last year, he toured extensively for Radius, presenting his evening of digital stories, 'Next Exit,' at a slew of conferences across the country. This past October, Radius and Apple Multimedia jointly sponsored the first Digital Storytelling Festival in Crested Butte, Colorado (*http://www.thenet-usa.com/story/story.html*). A second festival is scheduled for October 4–6, 1996. This one will be open to the public. For info call (415)285-8955, email *dabha@aol.com*, or check out *http://www.nextexit.com* .

"In what had to be the most creative event at the recent Macworld, **Apple Multimedia** sponsored an evening of digital storytelling at the Yerba Buena Center for the Arts that featured Atchley, along with **Peter Bergman** of the **Firesign Theater**, and **Marty Pottenger**, a community-based storyteller from New York City. In true Gulch Gossip fashion, I must confess to having been involved in the event myself by way of a five-minute 'Spoonman' invocation. [*Mr. Spoonman was kind enough to send me the text of his "Spoonification." It was quite spoonificent.—je*]

"Pottenger's piece drew on her involvement with a large city's public-works project that built an immense underground tunnel. Her stories, subtle and strongly character-centered, used stills and video to vividly augment her personal encounters with various workers on the project.

"Bergman's piece, entitled 'Nutscape,' played off a sequence of animated panels in a style that was close, but not too close, to a stand-up routine. Though his presentation was peppered with plenty of nerdy references, he never lost focus on the humor inherent in his everyman struggle with technology. The audience loved it.

"Atchley's work is presented as one man's journey through a colorful life meticulously captured in photos and videos. As he adapts his material to each new technological evolution, what the audience sees becomes increasingly labyrinthine. Where is the line between the life that we live and the media representation of that life? Atchley's work blurs the distinction. I have little doubt that the significance of what he has already done will provide the kind of time capsule that scholars will be deconstructing for centuries to come.

"Kudos to **Apple Multimedia, Ralph Rogers, Tim Cox**, and **Chip Woerner**, ex of Radius, for having the courage to clear a path for these melt-o-media stories to be seen and heard. Where this all leads, though, rests with folks like you deciding that the time has come to get your own stories up and on the screen. My guess is you already know what it is you want to say. All that's missing is the scanning and the digitizing. Boot up, and get thee busy."

Morphed Again! & Morph's Macworld Wrap-up

DOUG MILLISON HAS MOVED ON FROM *MORPH'S OUTPOST ON THE DIGITAL Frontier* and the *Daily Spectrum* to become director of publications and editor-in-chief with **GISTICS, Inc.**, a Bay Area consulting and market research firm. He's planning a series of editorial products and services for online publication, as well as CD-ROM and print components that will be distributed through various channels.

Without a pause, a delay, or even a momentary hiccup, **David Duberman** took over as editor of the *Daily Spectrum* and kept pumping out the info. If you want to keep up with what's happening in the wide, wide, wide world of multimedia on a daily basis, you can find the *Spectrum* on the following Web sites:

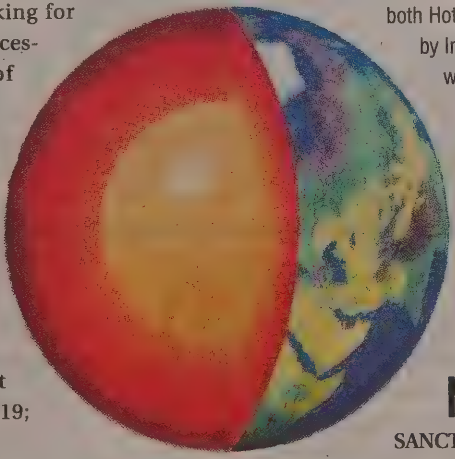
Live DV: *http://www.livedv.com*
Media Mall: *http://www.mediamall.com/mediamall/now/DS.html*
The Spring: *http://www.spring.com/~ds*
Time Warner's Pathfinder site: *http://www.pathfinder.com/pathfinder/pulse/news/spectrum/daily/latest.html*
Mecklermedia's IWorld site: *http://www.iworld.com/netday/morph/daily.html*
Macromedia's site: *http://www.macromedia.com/Industry/hot.industry.news.html*
3D Site: *http://www.lightside.com/3dsite/cgi/publications/daily-spectrum/*
Tenax Software Engineering Page: *http://www.halcyon.com/chigh/daily.html*

It's also on the Microsoft Network in the Multimedia & CD-ROM Forum (Go to Morph in MSN), and in the *Morph's Outpost on the Digital Frontier* forum on Apple's eWorld. Whew! now that's leverage!

For yet more leverage, David Duberman kindly agreed to allow Gulch Gossip to reprint his take on the multimedia aspects of the Macworld Expo, which now follows in only slightly edited form. Gulch Gossip hopes this is useful to our readers and isn't too much of a culture shock for those used to our native acerbic style.

"**DK Multimedia** of New York has four new titles on the way or already out: *CARTOPEDIA, A World Reference Atlas; The Eyewitness Encyclopedia of Nature; Eyewitness History of the World*; and not to be overlooked, *Anne Hooper's Ultimate Sex Guide*. The company has a sampler hybrid-format CD of nine previous titles; telephone 1-800-DKMM-575 for info.

"... **Jean-Louis Gassée**'s Menlo Park-based **Be, Inc.** showed off its new dual-PowerPC 603 BeBox computer, supposedly the first true real-time, multi-processor object-oriented computer with true preemptive multitasking and an integrated database. The company is looking for developers, so if you know C++ and own a Mac (necessary for BeBox development) with a copy of Metrowerks CodeWarrior 7, fax your essentials to (415)462-4129 or email *dev@be.com* .



"... **Andromeda Interactive** of Alameda, CA, primarily a publisher of reference CDs, hawked Terra Forma, a powerful new map-making tool featuring high-resolution 24-bit color images of the world, comprehensive text and map files, compatibility with major applications including Macromedia Freehand and Adobe Illustrator, and royalty-free worldwide use. Telephone Andromeda at 1-800-769-1616 or (510)769-1616; fax (510)769-1919; email *androm@netcom.com* .

"... **OnBase Technology** (714/830-5682; *http://www.onbasetech.com*) had Dragnet, the 'ultimate net address book,' a $40 bookmark manager. (Ask for the show special!)

"... Quebec, Canada's **Matrox** (514/685-2630; fax 514/685-2853) was showing off a PCI for PowerMac version of its Millennium 64-bit display accelerator, which is huge in the PC world (Morph's working on a Millennium display right now). The Mac version, at $649 with 4MB display memory, features hardware QuickDraw 3D acceleration.

"**mFactory's Hamish Forsythe** was handing out cigars and demo copies of mTropolis 1.0, which has emerged for the Macintosh after an extended gestation

continued on page 232

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- **Multimedia 101**
  From The Sublime
  To The Not So Bad
  Two Takes On The Meaning Of Life
  By Jonathan E. 234

I HEAR THE WEIRDEST THINGS

HERE'S A QUIRKY LITTLE STORY THAT CAME MY WAY AT A Christmas gathering. The teller of this tale wishes to remain anonymous.

"The CFO of mFactory literally burst into flames at a Christmas party—talk about a hot product! But what really sticks in my mind from that same party was when the roly-poly, Hawaiian-shirted author of Director approached our small group. Bursting into our conversation, he immediately peppered my two colleagues with arcane Lingo questions. After drawing very puzzled expressions, he asked, "Don't you know who I am?" Because I thought he must be joking, I replied, "Yes, but I won't hold it against you." He pretended to ignore me, then loudly announced his name. My buddies could do no less than fall to their knees and shout 'We are not worthy! We are not worthy!' before heading back to the bar for another martini."

Sherry Miller Does Nerd Boys

SHERRY MILLER WAS MUCH CHUFFED AT HER WEB SITE BEING CALLED both HotSpot of the Day by CMP's WinMagWeb and Cool Site of the Day by InfiNet. Unfortunately for the purposes of idiotic columnist jokes, it wasn't the same day—but who wouldn't be happy to receive such long-term acclaim, and wasn't **Andy Warhol** a total pessimist with his mere fifteen minutes for everybody? Sherry asked me if I wanted to be one of her Nerd Boys on the Net. In my best Nixonian tone (I'm so glad **Ollie Stone** has made him almost cool again) I told her, "I am not a nerd." To see who is and what else happens when art and technology meet (and if they don't, Sherry says that humor is dragged in to do the job), check out the site at *http://www.SherryArt.com* .

Not Out Of The Woods Yet

SANCTUARY WOODS OF SAN MATEO HAS BEEN ONE OF THE more sensibly ambitious and reasonably savvy multimedia companies around, so Gulch Gossip was sad to learn that it's facing enough difficulties to cause it to lay off twenty of its 100 employees. And you know it's really serious when you hear that the salaries of its top execs were cut by 10%. It will also shut down its Dallas, Texas, facility.

However, Sanctuary Woods simultaneously announced a new president, **Charlotte Walker**, a former software analyst at investment banking firm Bear Stearns & Co. Good luck, Charlotte, sounds like you've got a job ahead of you.

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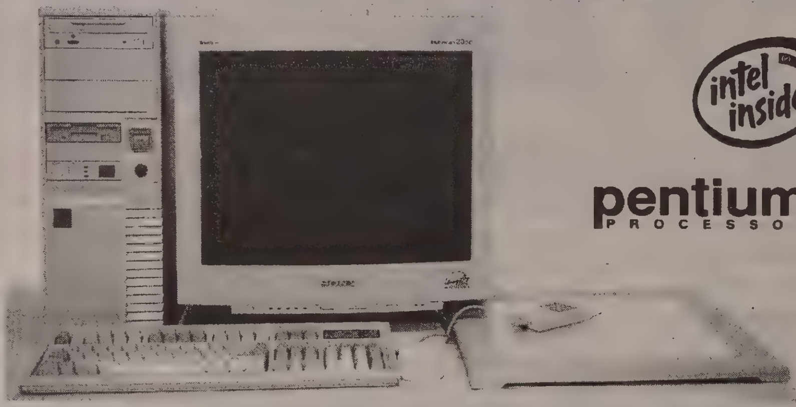

intel inside

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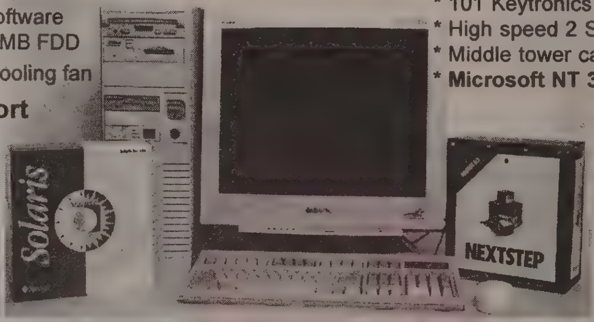

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* 230(D/E)	$2,095/2,695

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* 21" Philips 2120DC	$2,395
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* 21" MAG MX21F	$1,795
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* 20" SONY GDM20SE	$1,890
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* 17" NEC XP17	$1,099
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* 15" MAG 15FE	$ 375
* 15" SONY CPD-15FX	$ 455

Call for other monitors !

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* Calcomp Designmate D/E	$1,495/1,995
* Calcomp Techjet Color	$4,395/4,995
* Calcomp Techjet D/E	$2,395/2,995
* Calcomp Techjet personal (B)	$ 645
* Calcomp CCL600 Laser prt.	$3,295
* HP 355 Electrostatic color	$29,995
* HP DesignJet 750C D/E	$5,695/6,595
* HP DesignJet 600 D/E	$5,695/6,595
* HP Designjet 250 D/E	$2,495,3,295
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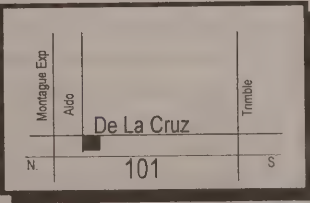

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GULCH GOSSIP *"Morphed Again!..." continued from page 229*

period. The unique object-oriented multimedia authoring system, purportedly ideal for cross-platform game creation, has stirred quite a bit of interest in the development community. The Windows player is ready now, but a Windows version of the full system won't be available until later this year. Telephone (415)548-0600; browse *http://www.mfactory.com/* .

"... **Virtus Corporation** of Cary, NC, was showing its new Virtus WalkThrough Pro 2.5, now shipping for Mac and Windows. This unique and powerful 3-D visualization and exploration tool now offers VRML export for 3-D Web publishing. Telephone 1-800-847-8871; fax (919)460-4530; email *info@virtus.com*; Web *http://www.virtus.com* . Morph was saddened to hear that Virtus's Alien Skin Textureshop, one of the coolest texture generation programs around on the Mac, won't be coming out for Windows.

"... **Daystar Digital** of Flowery Branch, GA, unveiled its Genesis MP workstation for media publishers, with four 132MHz PowerPC 604 processors. The company claims the $15,000 Genesis MP is the first multiprocessing Mac OS-based system, and says it's working with over 200 developers to create applications that take advantage of the system. Phone (770)967-2077; fax (770)967-3018.

"**PhotoDisc**, one of the top publishers of CD-based stock photography, had twenty-one new titles. The Object Series, with eight discs (available separately), contains 840 new objects grouped under such titles as Everyday Objects (three volumes), Metaphorically Speaking, and Just Hands. The four-disc Fine Art Series contains 400 new images; also weighing in at four discs is the Signature Series, with each disc selected from the portfolio of a single award-winning photographer or studio. There are also five discs of general-interest photos containing 1680 new images in all. Telephone 1-800-528-3472.

"... Philly's **Intelligence at Large** announced MovieStar Maker for Mac, subtitled 'Movie making, Web animation, and video email for the rest of us.' The program features drag-and-drop authoring, letting you easily combine video, MIDI music, scrolling text, animation, and transitions. A prerelease version should be available from the Web site at *http://www.beingthere.com* . The company also introduced v3 of its BeingThere audio, video, and data conferencing software, which now supports Apple's QuickTime Conferencing protocol. Telephone (215)387-6002; fax (215)387-9215.

"**Quarterdeck Corp.** of Marina del Rey, CA, previously a PC-software-only publisher, is going Mac in a big way. The company announced that the recently acquired StarNine Technologies' WebSTAR Web server products for Macintosh will form the foundation of Quarterdeck's overall strategy for leading the desktop Internet/Intranet software market. This strategy is focused on providing tools to create customized Web environments for both internal users on LANs as well as customers across the Internet. The company previewed new Mac products, including the WebSTAR Commerce Toolkit, Global Stage Chat Server software, and a new version of Quarterdeck Mail. It also announced that it will bundle Adobe PageMill with WebSTAR. Telephone (310)309-3700; fax (310)309-3215.

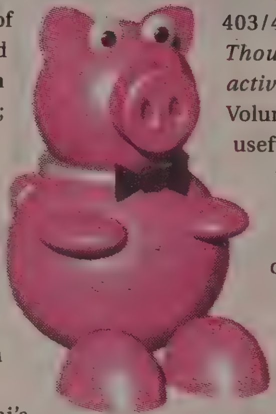
"... **Deneba Software** of Miami was showing Canvas 5, its $600 Mac/Windows integrated graphics program featuring image editing, vector drawing, and text and page layout. Telephone (305)596-5644; fax (305)273-9069; email *DENEBA@aol.com* .

"**MetaTools** proudly unveiled Kai's Power Tools 3, with a redesigned interface and new designers Planer Tiling, Interform, Spheroid Designer, and Lens f/x, now available for Mac and all flavors of Windows. Telephone (805)566-6200; fax (805)566-6385; AOL keyword KPT; Web *http://www.metatools.com* .

"... Morph picked up '**Apple Developer Group's Macintosh Development**,' a useful document for those considering getting into Mac software development. It discusses the growing Macintosh market, future market opportunities, the Mac platform, platform and technology directions (including tantalizing glimpses of Copland and Gershwin, the next two versions of the Mac OS), development tool options and futures, and programs and resources. Telephone Apple's Developer Support Center at (408)974-4897; fax (408)862-7602. [*Gulch Gossip sure hopes that Apple's plans comes to fruition.*]

"**Ventana Communications Group** (phone 919/544-9404; fax 919/544-9472) was showing *The Official User's Guide to Netscape 2.0*, the first result of its collaboration with Netscape Communications, as well as its many other fine Internet- and programming-related books and book-CD combos.

ACTIVE
Thought



"**Plastic Thought** of Edmonton, Canada (1-800-635-5715 or 403/429-5051; fax 403/426-0632; email *sales@PlasticThought.com* ; Web *http://www.3D-active.com*) was promoting 3d-Active Volume 1, its Mac-format CD-ROM of useful 3-D objects in DXF and 3DMF formats. Each model comes with 8-bit and 24-bit rendered PICT files, a QuickTime movie of the rotating object, and texture maps. The fifty-four great-looking models are grouped into such categories as Business, Classics, Household, Sci-fi/Hi-tech, and Toys; Morph particularly liked the plastic pig in the latter group. If you're just after a simple render, you don't even need a 3-D application; the included 3DMF viewer lets you rotate, move, and scale the model as you like, then copy the view to the clipboard or save it as a bitmap.

"... Speaking of 3-D, a not-so-new product at the show that was nonetheless unfamiliar to Morph was Presenter Professional from **Visual Information Development, Inc.** of Monrovia, CA. It claims to be one of the few 3-D applications that incorporates audio support. Telephone (818)358-3936; fax (818)358-4766; email *VIDIsales@aol.com* .

"... Finally in our Macworld Expo wrap-up, we have the Mac-only FaceSpan v2 ($199), an extensible Rapid Application Designer (RAD) for designing interfaces, integrating existing applications and creating new ones, and developing prototypes. Telephone 1-800-322-3772 or (919)968-7251; fax (919)968-4576; email *facespan@sdu.com* ."

Thanks, David. Leverage rules! Contact David directly at *duberman@morph.com* . You can send review product and press kits by mail to David Duberman, P.O. Box 578, Orinda, CA 94563-0553. ■

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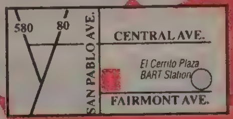

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MULTIMEDIA 101

From The Sublime To The Not So Bad

Two Takes On The Meaning Of Life

BY JONATHAN E

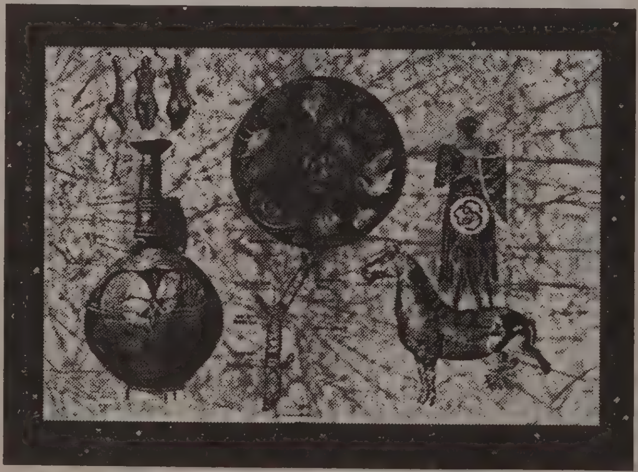
This month Multimedia 101 looks at a couple of CD-ROMs from opposite ends of the consumer market. *ScruTiny in the Great Round* is arty and, while very good, is likely to go over most people's heads. *Forrest Gump: Music, Artists and Times* is comparatively lowbrow and populist, although not the disaster you might expect.

SCRUTINY IN THE GREAT ROUND

Philistines will hate *ScruTiny in the Great Round*. Cyberjocks and speed freaks won't get it. It's as arty a CD-ROM as I've seen, nothing like a digital collection of past masters, but a deep and personally artistic meditation on the circle and meaning of life, the Great Round. It has virtually nothing to do with cyberspace.

In a way, *ScruTiny* doesn't do much. It's not loud and flashy and fast like a typical game. There are no puzzles to solve within the title itself. But in other more important ways, it does plenty. It works in a slow, contemplative fashion and engages your attention by directing your thoughts away from the computer, through the thoughts of the artists and toward the unknowable and expansive aspects of all existence. It's a digital manifestation of a very nondigital urge.

Perhaps paradoxically, *ScruTiny in the Great Round* is so effective only because it's in digital form, with interactivity and random access. More traditional media forms like video or film could only approximate this effect. You can, in fact, leave it running in a linear mode under its own steam (you know, screensaver mode) and eventually you'll see the whole of one or the other of its two principal halves. (And, yes, this is a title with more than two halves. I'll eventually explain.) However, running it in this way misses the best points of both life and *ScruTiny*: involvement, interaction, exploration, and yes, control.



Exploration in this case does not mean skittering around some fake and sterile 3-D environment that we have grown to fear and loathe so much. Thankfully, *ScruTiny* does not attempt to inflate the computer screen beyond the bounds of credibility with such unsatisfactory simulacra of reality. It remains comfortably and appropriately within the horizontal and vertical dimensions that the Creator set for contemporary computer screens (I'm only partly joking here, folks). It's only a representation of life, not a replacement for it.

But what a representation! There's considerable depth to the visual art, and the concept and content are worth looking at too. The two principal halves of *ScruTiny* are the Sun circle and the Moon circle, representing male and female, or body and intellect, or almost

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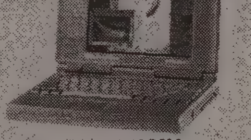

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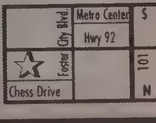

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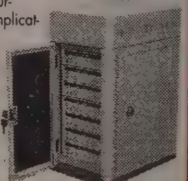

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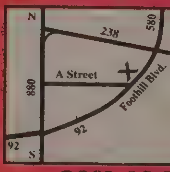

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MULTIMEDIA *continued...*

any other two complementary forces that might come to your mind. Each circle has eleven symbolic phases or stages of life, from zygotes through parturition, concupiscence, romance, and confrontation to recollection. The Sun circle has an additional stage of reunion.

> **Perhaps paradoxically, *ScruTiny in the Great Round* is so effective only because it's in digital form, with interactivity and random access. More traditional media forms like video or film could only approximate this effect.**

I find the implementation of this scheme highly symbolic and abstract, and I do not totally understand certain aspects, such as its sequencing. As in life, you can pass from one stage to the other. But in what would be a distinct improvement to life, you can choose when to move from one stage to the next. You can also go backwards to an earlier stage, easily cross over to the other circle, zip up to a bird's-eye view, and then descend back to the stage and circle of your choosing. It's time travel combined with a sex change.

Thus, exploration includes this ability to transport yourself almost at will from one manifestation of time and gender to another; once there, the point is surely to explore the artists' intent and your own reactions to what's presented—contemplation outside the computer.

Within the computer, the exploration comes close to environmental skittering, but never frustrates. Each screen has interactive hot spots that, when clicked on, trigger some sequence of usually strange events or take you to the other circle of life. But *ScruTiny* manages to escape the skitter effect, both through its exquisite visual appearance in 2-D rather than blocky models (no sense of direction to lose), and by the intelligence of its design—not asking you to look at a plethora of trivial objects, but rather at a few meaningful ones.

Allied with this is the bold look of the cursor: no wimpy little eyeballs or ugly sticky tongues, but big beautiful moons and suns that clearly let you know whether they're over a hot spot or not. The functions for shooting up to the heavens, down to the automated cycling-through-everything, or moving into the adjoining phases of life are also blessedly clear. Unfortunately, there is one persnickety little problem here: the cursor shows itself as active in the first frame of the new scene whether it's over a hot spot or not. Regardless, *ScruTiny* gets the All-Time Creative Cursor Award for now.

But that's about all that's clear. Beyond that, *ScruTiny in the Great Round* is mysterious—murky even—just as life is below its surface sheen. What you see is layered, filigreed, intricate, and mostly very dark, even if it's on the sunny side. There's detail galore, but it's obscured, buried deep, folded in on itself, and hidden from the eye's casual glance. Visual movement is mainly morphing from one half-seen but carefully framed element to another, although symbolic figures and text also move across the screen.

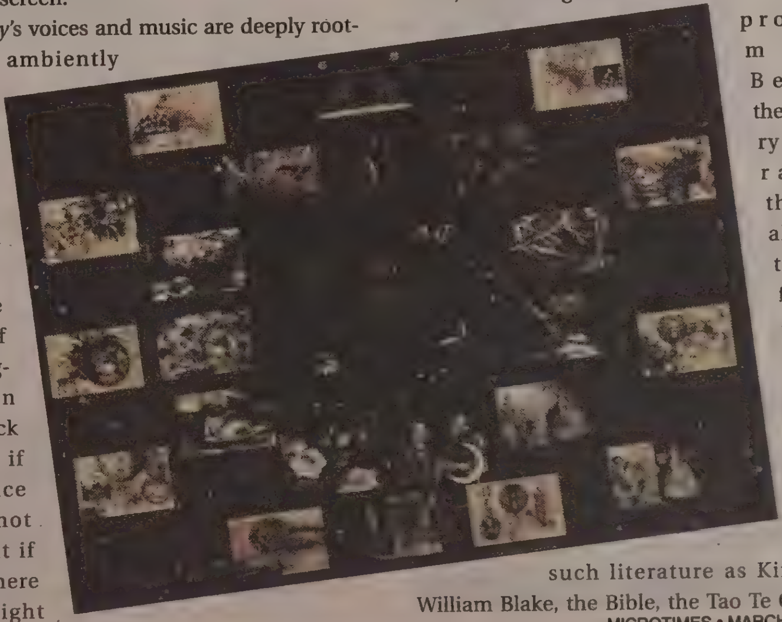
ScruTiny's voices and music are deeply rooted and ambiently atmospheric, almost as good film music was before the advent of marketing-driven soundtrack albums; if you notice it, it's not right, but if it's not there it's not right either. But make no mistake: the music suits the mood of *ScruTiny in the Great Round* and adds immensely to the atmosphere.

What I'm calling the third half of *ScruTiny in the Great Round* is WhoHoWhy?, a collection of video interviews with the three artists who created most of the work: Jim Gasperini, Tennessee Rice Dixon, and Charlie Morrow. It is a substantial and worthwhile addition to the two halves at the core of *ScruTiny.*

Originally, and again somewhat paradoxically, *ScruTiny in the Great Round* began life as a handmade and very beautiful book by Dixon in a very limited edition of twenty-two copies. Obviously, the audience for such a work cannot be wide. While Dixon had an early resistance to computers, she found morphing programs really appealing to her artistic sensibilities. Gasperini, who has a wide variety of interactive design experience and who was responsible for 1989's Hidden Agenda simulation game, had long collected her analog work.

Together they hatched the idea of transforming the paper edition of *ScruTiny* into interactive digital form, so that Dixon's work could reach a wider audience and because the work seemed so well suited to an interactive treatment. From what they say in the interviews, the collaboration was intense and the roles fluid. Morrow came in later to add the audio elements and music.

These three did almost all the work on the disc, including the programming. Besides these primary collaborators, there are also contributions from other visual artists in Dixon's collages and poetry from such literature as Kim Lyons, William Blake, the Bible, the Tao Te Ching, the



MULTIMEDIA *continued...*

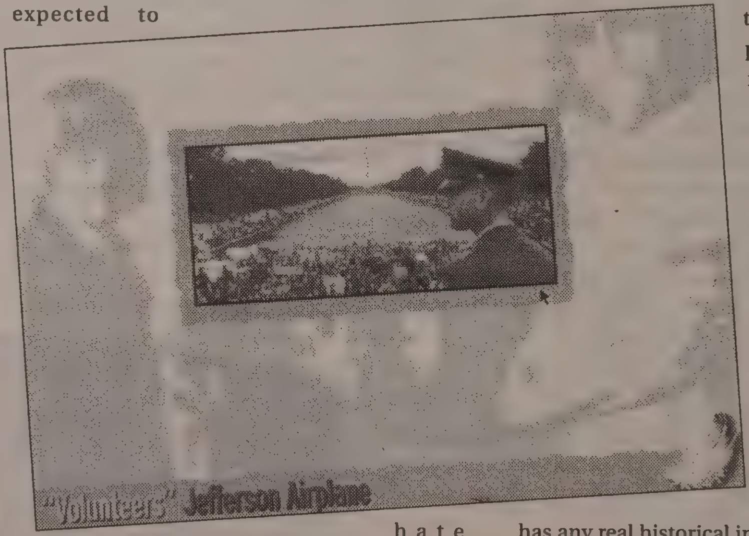
Tibetan Book of the Dead, the Bhagavad-Gita, and the Qu'ran. A few voices and sounds also come from other sources, including some "Anonymous Salvadoran Army Propaganda."

ScruTiny in the Great Round is a valuable CD-ROM, both for its own content and because it shows that it is possible to create a deep and complex multimedia work with a very small team. Overall, its design and production are excellent. Clearly, it's the result of real artists who have something to say taking the time and trouble to get their visions into digital form without rushing the job and cutting corners.

Come to think of it, philistines, cyberjocks, and speed freaks are the ones who have the most to learn from *ScruTiny in the Great Round*, although I mostly highly recommend it to those who are just plain curious about digital artistic expression. *ScruTiny* sets a new level of achievement in that often bloody arena.

FORREST GUMP: MUSIC, ARTISTS AND TIMES

I expected to hate the *Forrest Gump: Music, Artists and Times* triple CD-ROM set, much as I expected to hate the movie. But, just like the movie, once I actually looked at the thing, I didn't utterly hate it. I didn't exactly love it, but in the spirit of giving credit where credit is due, the strong points should be acknowledged.



The movie, of course, was a blockbuster and achieved that status mostly by being extremely well produced and directed; by jerking our heartstrings through an emotionally loaded storyline; and by offering a simple (too simple in my opinion), positive, uplifting moral that was obviously designed to appeal to the great unwashed and convince them they'll get somewhere in life, however dumb they are, as long as they follow the rules while also following their hearts.

I doubt that the CD-ROM set will achieve the same blockbuster cultural status, not only because the CD-ROM market is infinitesimally small compared to the movie market, but also because the very interactivity of this kind of multimedia just doesn't sweep one up in the spirit of the story. What the CD-ROMs offer is a kind of hunt-and-peck version of the movie, tied in with yet another retrospective look at various '60s icons. That hunt-and-peck aspect simply cannot compare with 24 frames per second of high-quality film stock.

The CD-ROMs are, in fact, well produced, easy to use, quite fast, and include some exceptionally good video, so I'm convinced that the problem lies somewhere between the concept of totally self-guided interaction (yes, I know that's heresy in this day and age) and the state of what's technically possible. A self-running mode and really instanteous reaction could possibly have changed my opinion.

The purpose of the CD-ROM set, other than the obvious market-driven one, is to cast light upon the mythical events of the '60s and their relationship with the fictional events of the movie. The connection is probably old news for anyone who actually lived through the '60s or has any real historical interest in the time. But, if you want to wallow in yet more nostalgia, these CD-ROMs fit the bill very well.

I find myself impaled on the fence about this almost constant obsession with the '60s. Yes, important things happened, they were exciting years, they were something of a breakthrough, blah, blah, blah. Many of those who endlessly push those times as the pinnacle of cultural evolution are well meaning and sincere, but plenty of good things have happened since then (along with some not so good

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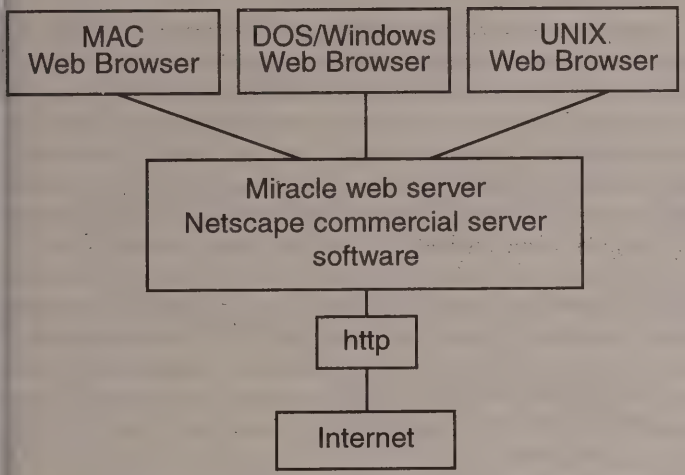

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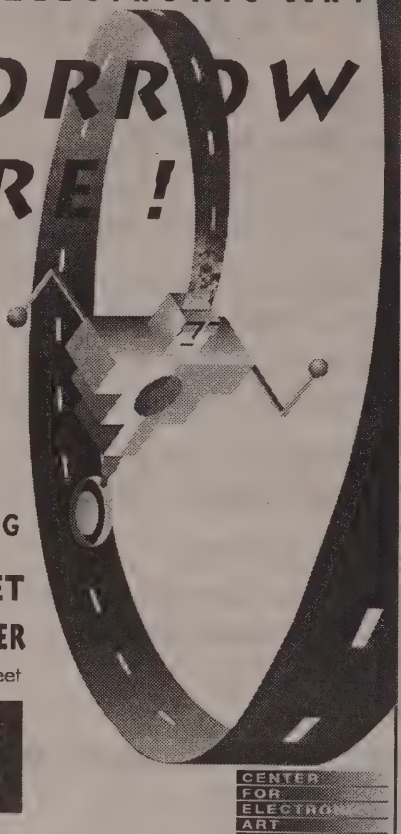

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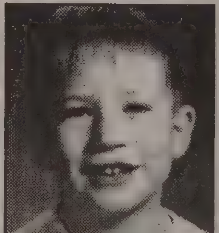

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MULTIMEDIA *continued...*

things, of course). Important cultural developments continue to be made; times have not stood still.

I wouldn't want to go through the '60s again for all the tea in China! My interest in them, while extant, is finite. In the case of *Forrest Gump*, the movie and the CD-ROM, I'd guess the two factors that moved the projects along most rapidly were the marketing demographics of all those boomers with their supposed disposable income, and the fact that the content-holding corporations already had many of the properties sitting in their vaults and wanted to make a windfall profit on them at low risk and with little outlay. Not a very '60s kind of approach to cultural expression!

So what do you get? Each CD-ROM has what's known as the continuity script of the movie (what actually appeared on the screen), a Milestones timeline that lets you jump to particular subjects and songs, and a selection of some of the songs that could be heard in the movie. Most, if not all, of these songs are pretty well known and readily available from other sources—and you don't actually get the entire song, just a looped excerpt—so don't buy the CD-ROM set to add to your record collection.

Perhaps the best things a music junkie would get out of *Forrest Gump: Music, Artists and Times* are vintage video clips of the artists performing, along with more recent interview clips of the artists talking about their work, reminiscing about the '60s, and saying what they think of the *Forrest Gump* movie (all good thoughts, you can bet!). There are also links to the appropriate scene of the movie, lyrics to the songs, album covers, background material on the artists and some of the events of the times, and a transcript of the complete interview. It all adds up to a lot of content, and some of it is very good.

> **The days of movie as interface are, for better or worse, still some way off in the future. In the meantime, the *Forrest Gump* CD-ROMs are a step towards "expanded" movies. Not a misstep, although not a full stride.**

As a guide to the popular culture of the '60s (and a little of the '70s), it's not bad—maybe even quite good, given my earlier comments about the hunt-and-peck aspects of this form of interactivity, and remembering that it takes far more than three CD-ROMs to cover a subject of such size comprehensively.

Overall, the design is clean, with good linking and generally remarkably easy navigation and control. Unfortunately, the program locks up in an ugly sound loop more often than not when linking from one disc to another.

continued on page 304

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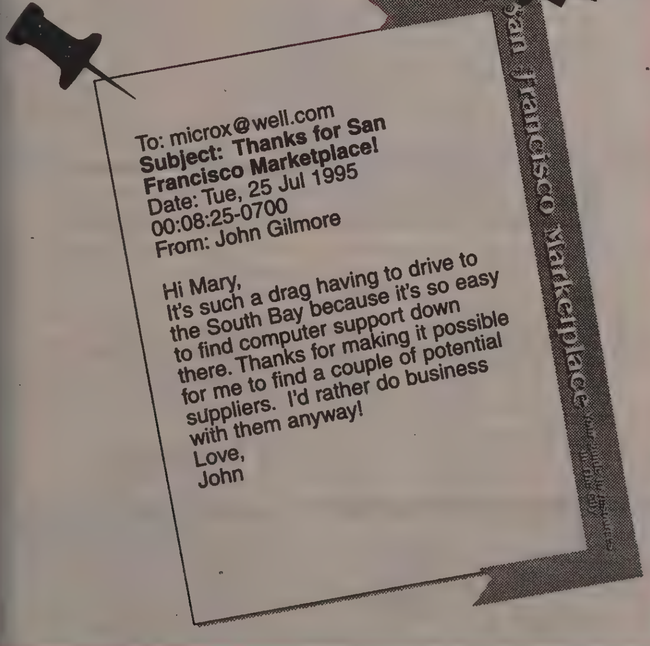

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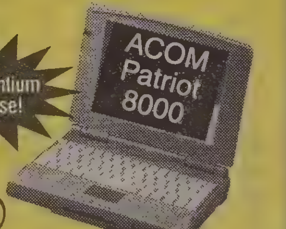

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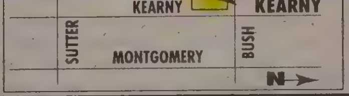

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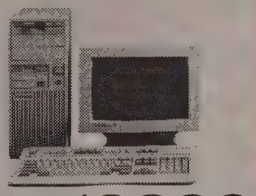

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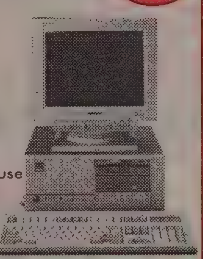

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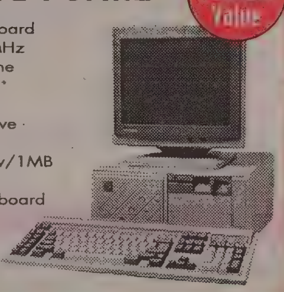

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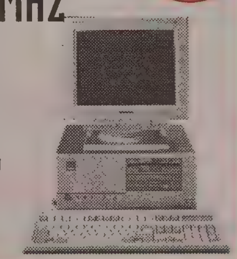

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Internet

continued from page 103

1950–1954 Sen. Joseph McCarthy's anti-communist "crusade."

1986 "Indecent" pictures appear on USENET and the Internet.

1996 Sen. James Exon's Internet censorship act revives the Comstock Law.

Large segments of the US population have often wanted to suppress entire categories of behavior or knowledge for the populace as a whole, and governmental authorities have periodically gone along with them.

The Comstock Law had teeth in its day, and with a different Supreme Court, it could again. See the Cato Institute writeup on it, *http://www.cato.org/main/pa232.html* , which says in part: "Near the end of his life, Comstock wrote that he had convicted 'enough people to fill a passenger train of sixty-one coaches, with sixty of the coaches containing sixty people each and the last one almost full.'" He said that he had destroyed almost 160 tons of obscene literature and 3,984,063 obscene pictures. Comstock also zealously pursued early feminists, such as Margaret Sanger, since his law banned the mailing of information on contraception and abortion.

This is also the law that was used to ban works such as James Joyce's *Ulysses*, which ended up being the test case that partially defanged the law.

Those who view the Internet as an electronic frontier and have called for it to be "civilized" have gotten exactly what they asked for: the very same law that was used to "clean up" the Old West, worded in such a vague manner that its application will be at the discretion of every federal marshal in the land.

This tradition goes back before the United States existed. Every new technology and every new frontier has its "indecent" materials and its legal reactions. Two of the most popular uses of the early printing press were pornography such as Boccaccio's *Decameron* and numerous less literary works, as well as vernacular editions of the Bible. The pornographic works were considered indecent for reasons that are still in vogue today on this side of the Atlantic. The Bible editions were considered indecent because they intervened in the practices and teachings of Mother Church.

I haven't run across many examples where legislatures overturned such legal reactions; seems it's almost always the executive or the judiciary branch that has to do it—and the latter only happens after people challenge the law.

Do note that Sen. Patrick Leahy (D-VT) has introduced a bill in the Senate to do just that, and do please support him (*senator_leahy@leahy.senate.gov*), but don't hold your breath until the Senate passes it. Those who think the Exon Law is really about suppressing pornography would do well to read Sen. Leahy's speech proposing his new bill, which makes it clear that the victims of the Exon Law will mostly be you and me.

What Is To Be Done?

One can only hope that the authors of the Constitution wrought well when they deliberately produced three branches of government, and that the third branch will stop this law. Many people, myself among them, have already joined in lawsuits against this law.

WHAT THIS LAW WILL REALLY DO IS HINDER THE DEVELOPMENT OF THE INTERNET AS THE ASTONISHINGLY USEFUL RESOURCE IT IS FOR CHILDREN AND ADULTS ALIKE, STUNT THE COMMERCIAL ADVANTAGE OF THE US IN A FIELD WHERE IT CURRENTLY LEADS THE WORLD, AND INFLICT COSTLY DAMAGE ON ONE OF THE CORNERSTONES OF THE US POLITICAL SYSTEM.

The press helped cause this problem, and the press can help solve it. On the day of the signing of the Telecommunications Act, almost no national news media mentioned the Internet censorship provisions except in passing. Such an all-out assault on the First Amendment is not a minor issue, and it should be reported.

The press did start mentioning the issue after thousands of Web pages on the Internet turned black for forty-eight hours following the signing. Users of the Internet have started speaking out, and they need to continue to do so.

Members of Congress got there because we elected them. We would all do well to remember this in November. Maybe next time we can get a Congress that knows what the Internet is. To see how lawmakers voted, see *http://www.vtw.org* .

Meanwhile, there are three more basic reasons to hope that Congress has just shot itself in some *Exonerated* part of its collective body.

1) The Internet is not a domestic service. It connects more than 100 countries worldwide. It's true that more than half of just about everything on the Internet (hosts, users, Web servers, etc.) exists in the US. But the rest exists in places with a wide array of different governments, societies, and traditions. Not even the US Congress can *Exonerate* the whole world. Expect data havens to open up outside the territorial jurisdiction of the United States, just as Finland (privacy) and the Netherlands (encryption) have already served that function for years.

2) The Internet is not a single entity. It is a collection of tens of thousands of networks, millions of computers, and tens of millions of people, and it is run by some 50,000 different organizations. Not even the United States, with more prisoners and prisons than any other country in the world, has the facilities to lock up all of them. If the US makes a serious attempt to try, the Internet's true diversity and depth will make it sufficiently clear that the government is attacking a broad spectrum of its own people. Not even NSA can monitor all the traffic on the Internet, and if the US government tries to embargo incoming traffic, it will find it has a hard row to hoe, especially when normally mild-mannered trading partners in places like Japan and Europe start complaining.

3) If this year perhaps 7% of the US population is on the Internet, next year there will be 14%, and the next year 28%, and so forth. The more people who join the Internet, the more will see what it really is, and the less they will tolerate this sort of destructive behavior by their elected officials. Many concerned parents will want their children to have such a powerful instrument of information as the Internet, and will teach their children to make choices for themselves.

The state is not our brother's keeper. We are. ■

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The MBone

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- start your own radio show, if you are so inclined
- see live pictures of space bound NASA astronauts working on the space shuttle.
- attend a virtual poetry reading, hearing the author's actual voice
- see and hear rehearsals of Silicon Valley garage bands
- attend an Internet Engineering Task Force meeting without leaving your office

...And although the following things haven't happened yet, in the future the MBONE may allow you to:

- watch a customized version of CNN right from your computer screen
- engage 5,000 other people in a huge, intercontinental computer game
- see reruns of *Gilligan's Island,* and share your snide comments in real time with faraway friends.
- put your own garage band's rehearsals online for all to see (and hear)
- automatically download and install authorized upgrades and bug-fixes to your computer software, without your intervention.
- chat in real time with twenty other people—like with the current Internet Relay Chat, except using your voice instead of your overworked fingers
- do plenty of other things that haven't been thought of yet

packets aren't sent individually to each recipient; instead, only one stream gets sent, but it ends up at all the specified destinations at (more or less) the same time. This is called "multicasting."

You can think of multicasting as the Internet's version of broadcasting. A site that multicasts information is similar in many ways to a television station that broadcasts its signal: the signal originates from one source but can reach everyone in the station's signal area. The signal takes up some of the finite available bandwidth, and anyone with the right equipment can tune in. For those who don't want to catch the signal or don't have the right equipment, the information passes by.

Why is that interesting? Because IP multicasting lends itself to a whole new way to publish information on the Internet. Instead of the electronic equivalent of a one-on-one chat, you can have a megaphone, broadcasting to everyone who cares to listen. And the people who do the listening can send something right back, not just to you but to everyone else as well.

The MBONE is today's implementation of IP multicasting. As the MBONE gathers steam, it promises a thorough and irrevocable shift in how the world communicates. It promises, in others words, a revolution of its very own.

MBONE Is For Power Users

Although the MBONE is free to use for anyone who has the right equipment, the hardware and connectivity requirements are much greater than those of the common home Internet user. A PC or Macintosh system coupled with a standard modem doesn't have enough computing power or bandwidth to send or receive MBONE transmissions.

You need a good deal of power to handle multicast IP. Today, multicasting software—the behind-the-scenes tools for moving, encoding, decompressing, and manipulating multicast packets—is only available for high-end UNIX workstations such as those from Sun, DEC, HP, IBM, and Silicon Graphics.

This is changing, however. Multicasting tools are becoming available for Linux—a free UNIX-like operating system that runs on (relatively) cheap IBM PC-compatible computers (Apple recently announced that a Mac ver-

continued on page 252

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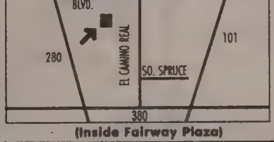

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The MBone

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sion was in the works). Since MBONE tools can work on a Linux-based PC, it's not too much to imagine that soon MBONE tools will be available for home computers like Macs or PCs running Microsoft Windows. Most likely, only the most powerful computers, such as those with Pentium and PowerPC chips, will be able to handle MBONE tools at first, but the trend for more widespread use is definitely underway. The software tools are being built: PC/TCP v2.3 from FTP Software Inc. supports multicasting for PCs, as does Windows 95, and it is rumored that the next version of MacTCP will support multicasting.

A site that multicasts information is similar in many ways to a television station that broadcasts its signal: the signal originates from one source, but can reach everyone in the station's signal area. The signal takes up some of the finite available bandwidth, and anyone with the right equipment can tune in.

Even for those who have the hardware to do multicasting today, there's another huge hurdle preventing the MBONE from taking over the Internet. That hurdle is bandwidth: most of us just don't have enough of it. A multicast video stream of 1-4 frames per second eats about 128Kbps of bandwidth, about nine times the speed of a 14.4Kbps modem. Audio multicasts, partly because of their smaller bandwidth requirements, are more common on the MBONE than video. Multicast audio typically uses 56 to 64Kbps of bandwidth.

Today, there are about 1,700 networks (in about twenty countries) on the MBONE, meaning the MBONE is available on approximately 3% of the Internet.

The MBONE needs to come a long way—overcoming today's limitations in bandwidth and computing power—before it becomes a household word. However, it's very likely that within the next few years—given the growing popularity of ISDN and the advent of improved data compression techniques—that the MBONE will become the next "killer app" of the Internet. ■

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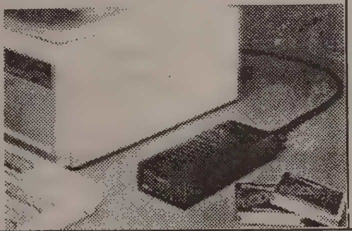

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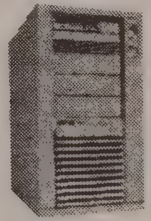

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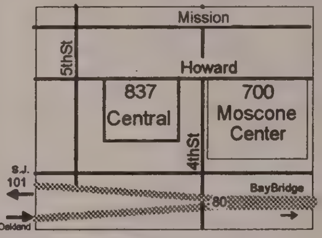

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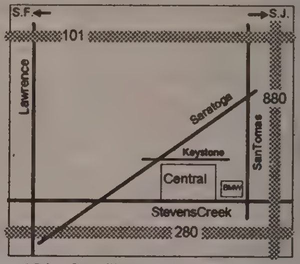

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Intel Pentium CPU, CPU Cooling / Heatsink
16MB RAM (2 of 2 x 32 EDO 60ns Simm)
Teac 1.44MB Floppy
Seagate ST-32430N, 2GB SCSI Hard Drive
EIDE & I/O, 256k Pipeline cache on board
Adaptec 2940 PCI SCSI Controller
Toshiba 3701B, 6X SCSI CD Drive
Mid Tower Case w. 230W Power
Mitsumi / Keytronic Keyboard
MAG DX1795 17" Monitor
Microsoft Serial Mouse
SB 16 Viba Sound Card
EP-280, 60W Speakers
Diamond Stealth Video 64 2MB VRAM PCI Card

Intel Endeavor 586-150 / 166 $3399/$3625

SUPER P55CMS 586-150 / 166 $3429/$3655

P.O.

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~ Prices subject to change w/o notice and to stock on hand. Not responsible for typographical errors

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MOST MONITORS, NETWORK PRODUCTS , & CD TITLES TO CHOOSE FROM IN THE BAY AREA

HARDWARE

1. CD DRIVE / SOUND CARD

ADDONICS (portable)

4X Parallel Port CD Rom / w. Sound Card	269/379
6X Parallel Port CD Rom / w. Sound Card	329/439

CHINON

CDS-545 4X 230ms, 600Kb/s, IDE, Int	89

CREATIVE LABS

Midi Kit + Software	65
SB 16 IDE Vibra	79
Sound Blaster AWE 32 w. ASP oem / reg	155/235
Video Blaster SE-100 (video capture)	235
Wave Blaster II	135

CRYSTALIZER

4-in-1 SCSI-2 Sound Card & MCD	99

MITSUMI

FX400 230ms, 600Kb/s, IDE 4 Speed Int	**(89)*
FX600 150ms, 900Kb/s, IDE 6X Int	*139*

NEC

6Xi 6 Speed Int oem / reg	269/355
MultiSpin 4X Ext 4 Disc Changer	355
MultiSpin 4X Int 4 CD Rom Changer	279
Interface Kit w. 16 bit AT SCSI	69

NEW COM

4X Basic Internet / Multimedia Kit w. 9CDs	179
6X Basic Internet / Multimedia Kit w. 9CDs	229

PANASONIC

CR-581 4 Speed IDE Int	**(95)*

PIONEER

4 Speed, 150ms, 676Kb/s, SCSI Int	185

PLEXTOR

PX-43CE 100ms, 675Kb/s, 4X Int	269
PX-63CS 145ms, 900Kb/s, 256k, 6X Int	355

SONY

CDU-77E 4X 250ms 600Kb/s, IDE Int	**(99)*
CSD-760S 4X SCSI	149
PRD-150 Portable 2X w. PCMCIA Kit	345

TEAC

CD56E 6X IDE Int	**(155)*

TOSHIBA

3701B 6X SCSI Int	**(229)*
XM-5402B 4 Speed IDE Int	**(89)*
5522 6X IDE Int	135

TURTLE BEACH

Monte Carlo Game Card	95
Tropez Sound Card	195
Wave Table Sound 32	129

OTHERS

CD Carring Case (holds 40 CDs)	19.95
CD Caddy / CD Jewel Case	*3.99/*(0.55)*
CD Pop-Out Storage Case (holds 30 CDs)	19.99
ESS 16 IDE Sound Card	58
Gravis Ultrasound Ace	**(99)*
Media Vision : Jazz 16 SCSI Sound Card	**(59)*
Microphone / Headphone	7.99/3.99
Wav Jammer 16 bit Stereo PCMCIA	275

MULTIMEDIA UPGRADE KIT :

Diamond 4400 4X CD Kit w. 20 titles	275
Diamond 800 8X CD Kit w. 1 title	325
Diamond 8000 8X CD Kit w. 5 titles	**(479)*
SB 2X + 16 Sound + Microphone & Headphone	189
SB Discovery 16 2X CD Kit w. 18 titles	199
SB Discovery 4X CD Kit w. 15 titles	299
SB Edutainment 2X CD 16 w. 42 titles	265
SB Multimedia Office 2X CD Kit	359
Turtle Beach TBS-810 4X + 16 Sound Card + titles	219
Turtle Beach TBS-6600 6C CD + 16 Sound + titles	269
Turtle Beach TBS-8800 8X CD + 16 Sound + titles	389

REWRITABLE CD DRIVES :

HP Sure Store CD Writer C4324A, read 4X, write 2X	**(975)*
- Writable CD 74 min.	11.95
Kodak Writable CD (74 min.)	8.95
JVC CD Writer (w. Adaptec, cable, software) - 2X Int / 2X Ext / 4X Ext	1099/1199/2565
Panasonic PowerDrive Optical : 2X Write, 4X Read Int / Ext	485/615
- Writable Optical Disk	49.95
Philip CDD-522 2X Int (w. software)	2145
Pinnacle Micro RCD 5020i 2X Int	935
Ricoh 2X Int (w. software)	1575
Yamaha CDR-100 4X Int / Ext	2350/2575

SPEAKERS :

Active 75 (80W) / Active SP-690	45/33
Altec ACS52 / ACS53	95/125
Altec ACS150 / ACS300.1	99/199
Altec ACS500	295
EP-68 (70W)	33
EP-120 (120W) / EP-280 (60W)	49/29
JAZZ J-306 5W RMS per Channel	39
JAZZ J-590 14W RMS per Channel	69
JAZZ J-688 14W RMS per Channel	89
JAZZ J-902S 18W RMS per Channel	109
Labtec CS150 / CS180	**(11.50)/18.95*
Labtec 1224 3D Sound (10W)	69
Mini Speakers (4W)	**(4.99)*
QIC-8803 Amplied Speakers (100W)	42
Yamaha YST-M5 / YSTM-10 (10W)	39/69

2. CASE

Baby AT w. 200W / Baby Tower w. 200W	49/45
Mid Tower w. 230W Power	59
Full Tower w. 250W Power : 1 Fan / 2 Fans	79/95
Full Tower w. 300W Power & Wheels	169
GT212 Mid Tower w. 250W, Open Side, 2 fans: Black / White	109/105
GT300 Full Tower w. 300W, Open Side, 2 fans: Black / White	175/169

HDD EXTERNAL CASING:

2 half ht or 1 full ht for PC, 60W, w/o cable	89
3 half ht or 1 full ht & 1 half ht, 60W, w/o cable	105
4 half ht or 2 full ht, 200W, w. cable	119
7 half ht or 3 full ht & 1 half ht, 250W, w. cable	229

ANTEC

CD Rom or 5.25" External Casing	65
3.5" HD External Casing	59
KS-011+RPP3002: 19 Bay Server (9 front,10 int. bay) 300W,Hot-Swap + Redundant P/S, 2 Cooling Fan	599
KS-011+RPT600: 19 Bay File Server (9 front,10 int. bay) 300W Redundant Vertical AT P/S, 2 Cooling Fan	479
KS-022+RPP3002 : 8 Bay Tower Case 12 Slots, 300W Hot-Swap + Redundant P/S	399
KS-022+RPT600 : 8 Bay File Server 12 Slots, 300W Hot-Swap + Redundant P/S	279

3. CONTROLLER

ADAPTEC

1522A Fast SCSI Board, 3Mb/s / w. Kit	85/145
1542CP SCSI Board, 10Mb/s / w. Kit	175/239
2742AT SCSI EISA w. Kit	355
2842AK SCSI VLB w. Kit	229
2940 SCSI PCI w. Kit oem / reg	219/249
2940U SCSI PCI w. Kit oem	235
2940W Wide-SCSI PCI Kit w. wide int cable	269
2940UW Ultra Wide-SCSI PCI w. Kit oem / reg	275/295
AHA3940 PCI Multi-Channel SCSI	399
APA1460 Slim PCMCIA SCSI	165
ASW-EZ SCSI 3.1 for Dos & Windows	69
ASW-EZ SCSI 4.0 for Windows '95	69
T348K Parallel to SCSI Adapter	95
T358K EPP Parallel to SCSI Adapter	125

BUSLOGIC

KT410A IDE Cache VLB	119
KT445C SCSI VLB w. Kit	199
KT542B SCSI-2 w. Kit	209
KT757C Fast SCSI-2 & Wide-SCSI EISA w. Kit	375
KT910A IDE Cache PCI w. Kit	159
KT946C SCSI PCI w. Kit (supports 8GB HD)	249

COREL

Corel SCSI Software v2.0	85

DTC

2278VL IDE w. I/O VLB, 32 bit	35
3274 SCSI VLB 32 bit	75

FUTURE DOMAIN (SCSI)

TMC-1660 SVP (SCSI Value Pack)	119
TMC-1680 for AT (4FD & HD) / SVP	119/129
TMC-3260 PCI / SVP	105/139

KOUWELL

KW-554N 2IDE/ 2FD	19
KW557A IDE/ 1.44/ 2S(FiFo)/ ECP/ 1G	29
KW558A VLB IDE/ 2.88/ 2S(FiFo)/ 1P1G/ ECP/ EPP.	34
KW560C VLB EIDE/ FDC/ 2S 1P 1G	35
KW560D VLB EIDE/ 2.88/ 2S(FiFo)/ 1P/ ECP/ EPP	39
KW602B EIDE PCI	32

NEW MEDIA

PCMCIA Bustoaster SCSI	215
PCMCIA Bustoaster SCSI-2	219

PROMISE (drive cache)

DC-4030VL IDE VLB, cache up to 16MB	99
DC-5030 IDE PCI	129
EIDE 2300 Plus IDE/ 4HD/ 2S 1P/ 16550.	59
EIDE MAX Enhanced IDE ISA only	32

QLOGIC

Fast SCSI 16 bit (all SCSI CD Rom)	55
Fast SCSI EISA w. Kit / Fast SCSI VLB Kit	199/189
Fast SCSI PCMCIA	199
Fast SCSI PCI Kit / Wide-SCSI PCI Kit	249/299

SIIG (5 yr. warranty)

SC-JE0012 EIDE 4HD 16 bit ISA	39
SC-JE4012 EIDE 4HD/ 2FD 16 bit ISA	59
SC-VKA4ZZ EIDE 4HD/ 2FD/ 2 Fast Serial/ high speed ECP/P / 1 Game VLB	89

VITEX

IDE w. 2FD/ 2S 1P/ 16550 chips	35
IDE w. 4FD/ 4S 2P 1G/ 2S16550/ VLB	65
Enhanced IDE/ 4HD/ 2FD/ 2S 1P 1G/ VLB	35
Enhanced IDE/ 4HD/ 2S 1P/ VLB/ 16550	39

WONDER SYSTEM

IDE w. 4FD/ 2.88/ Drivers Tape/ 1.0 Mbps	29
VL3208 EIDE w. 4HD/ 2FD/ 16550/ VLB	39

OTHERS

ASUS SC200 SCSI-2 PCI (w. NCR chips)	85
IDE w. I/O (2S 1P) / IDE w. I/O VLB	19.50/29
IDE w. I/O (2S 1P) PCI w. 16550 chips	45

4. CPU

AMD

486-DX2-66 / 486-DX2-80	45/55
486-DX4-100 / 486-DX4-120	79/99

INTEL

486 DX2-66	79
Over Drive 486-DX2-66	79
486 DX4-100	99
586-75MHz / 586-90MHz Pentium	139/209
586-100MHz / 586-120MHz Pentium	229/289
586-133MHz / 586-150 MHz Pentium	369/479
586-166MHz Pentium	699

OTHERS

Cooling Fan for 486 CPU	5.95
Cooling Fan for 586 Pentium CPU	7.95

5. DIGITIZER

SUMMASKETCH

III 12 x 12, 4 or 16 button	**(249)*
III 12 x 18, 4 or 16 button	**(395)*
- 2 button stylus for III	39

WACOM

Art Pad II 4x5, w. Erasing Ultra Pen for PC	135
- w. Fractal Dabbler	165
Art Pad II 4x5, for MAC	139
Art Z II 6x8, w. Erasing Ultra Pen for PC / MAC	315/319
Art Z II 12x12, w. Erasing Ultra Pen for PC / MAC	425/429
Art Z II 12x18, w. UP-701E	685
UD-520 4-button Cursor	109
UP-201 Pressure Stylus	49.95
UP-701E Erasing Ultra Pen	69.95

6. DRIVE

FLOPPY DRIVE :

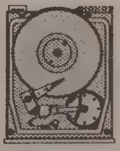
SONY

MPF-520 1.44MB 3.5" / w. frame	31/35

TEAC

1.2MB 5.25"	43
1.44MB 3.5" / w. frame / Black	33/37/45
Dual - 1.2MB & 1.44MB	85

HARD DRIVE :



CONNER

CPS-541A 540MB 14ms 64k IDE 1" ht	165
CFS-850A 850MB 15ms 64k IDE 1" ht	195
CFP-1080S 1.08GB 10ms 256k SCSI-2	*259*
CFS-1621A 1.6GB 14ms IDE 1" ht	265
CFP-2105S 2.1GB 8.5ms 256k Fast SCSI-2	569

FUJITSU (2 yr. warranty)

M2684SAU 540MB 12ms 256k SCSI 1" ht	179

HP

5271A 1.6GB 12ms 512k IDE	289
3725S 2.14GB 8.9ms SCSI-2	**(559)*

KINGSTON

PCMCIA 260MB IDE	445

MAXTOR

MXT-7541A 541MB 12ms 32k IDE	169
MXT-71084A 1GB 14ms 64k IDE	215
MXT-71626A 1.6GB 12ms 128k IDE	265
MXT-72004A 2GB IDE	359

MICROPOLIS

MC-4221 2.1GB 9ms 512k 1/2 ht	699
MC-3243 4GB 8.5ms 512k 3.5" ht	1125
MC-1991 9GB 12ms 5.25"	2065

NEW MEDIA

PCMCIA 105MB IDE	375
PCMCIA 170MB IDE	425
PCMCIA 260MB IDE	589

QUANTUM

FB-1080S 1GB 12ms 128k SCSI-3	**(259)*
TR-840A 840MB 14ms 128k IDE	195
Atlas XP-32150S 2GB 8ms 7200rpm SCSI-2	759
Capella VP32210S 2GB 8ms 5400rpm SCSI-2	645
Grandprix XP-34301S 4GB SCSI	979

SAMSUNG

PLS-30854A 850MB 11ms 256k IDE	209
PLS-31274A 1.27GB 11ms 256k IDE	249

SEAGATE (5 yr. warranty for 1GB+)

ST-51080A 1GB 10.5ms IDE	225
ST-51080S 1GB 12ms SCSI	259
ST-31230W 1.05GB 9ms 512k Wide-SCSI	499
ST-32140A 2GB 10.5ms IDE	399
ST-32430W 2.14GB 9ms 512k Wide-SCSI	709
ST-32550N 2.14GB 8ms 512k SCSI-2	745
ST-32550W 2.14GB Fast-wide SCSI	819
ST-15230N 4.3GB 9ms 512k SCSI	995
ST-15150N 4.3GB 8ms 512k SCSI	1125
ST-410800N 9GB 11.5ms 1M SCSI	2199

TOSHIBA

PCMCIA 262MB IDE	455

WESTERN DIGITAL (3 yr. warranty)

WD-6350 635MB 11ms 128k IDE	175
WD-2850 850MB 10ms 128k IDE	195
WD-2100 1GB 11ms 128k IDE	225
WD-21200 1.2GB 11ms 128k IDE	**(239)*
WD-31600 1.6GB 10ms 128k IDE	299

OTHERS

Impression CardDrive (2 slot PCMCIA)	185
Mounting Frame for 3.5" Hard / Floppy Drive	4/4
Removable Case for 3.5" HD IDE / SCSI	25/27

REMOVABLE DRIVE :

SYQUEST (Mitac)

105MB 3.5" w. cart., SCSI for Mac, Ext.	339
105MB Cartridge	55
270MB Cartridge	65

ZIP DRIVE :

IOMEGA

Jaz Drive 1GB SCSI	529
- Jaz Disk 540MB : single / 5-Pack	75/315
- Jax Disk 1GB : single / 5-Pack	129/499
Zip Drive 100MB SCSI	199
Zip Drive 100MB Parallel	199
- Zip Disk 100MB : single	18.95
- Zip Disk 100MB : 3-Pack / 10-Pack	49.95/155

SYQUEST

EZ 135MB SCSI	235
EZ Disk 135MB	19.99

7. I/O CARD

KOUWELL

KW524H 2S/1P/1G	22
KW524J 2S/2P	24
KW524L 2S(FiFo)/ 1P/ 1G	34
KW508-1 Single Parallel Port	12

QUICKPATH (16550)

FlexPort 42: 4 Serial / 2 Parallel (Bi - Dir)	99
PortFolio 550E: 13 Port Multi-I/O, 4 Serial/ 4 FDD/ 2 Parallel/ 2 IDE/ 1G	125

SIIG (5 yr. warranty)

(2S 1P) w. 16550 chips	39

STB 4-COM

4 Serial, 16 bit, 16550, support Com 1-8, IRQ (2,3,4,5,10,11,12,15)	99

**(price) .... SPECIALS / on SALE* (oem) .... $, bunddled with hardware only

8. KEYBOARD

FOCUS

FK2001 101 Click	35
FK9000 129 Key Programmable	47
FK7200 101 Trackball	39

MICROSOFT

Natural Keyboard oem / reg	*65/*(79)*

NORTHGATE OMNI (5 yr. warranty)

101NI / 102	**(65)/*(65)*
Ultra T	**(75)*

SIIG (5 yr. warranty)

Minitouch 81-key Click	45
Supertouch 101 Click	53
Wavetouch 101 Soft	39
Wintouch (for Win'95)	39
W104 (for Win'95)	29

OTHERS

Ancer 101 Key (black)	42
BTC 5100 Key Mini (80-key)	35
Keytronic 104	**(29)*
Maxi 101 / Maxi 124	35/53
Mitsumi 104	29
Spill -resistant 101 Key	19.50
Unikey Natural Keyboard	42

9. MEMORY

DRAM

256k x 4 - 70ns	5.50

SIMM

1 x 9 - 60ns / 70ns / 80ns (1MB)	35/32/31
4 x 9 - 60ns / 70ns (4MB)	135/130
1 x 36 - 60ns / 70ns (4MB , 72 pin)	129/125
2 x 36 - 60ns / 70ns (8MB , 72 pin)	249/245
4 x 36 - 60ns / 70ns (16MB, 72 pin)	459/455
8 x 36 - 60ns (32MB, 72 pin)	999
EDO 1 x 32 - 60ns	115
EDO 2 x 32 - 60ns	209
EDO 4 x 32 - 60ns	439
Non Parity : 1 x 32 - 60ns / 70ns	99/97
Non Parity : 2 x 32 - 60ns / 70ns	195/189
Non Parity : 4 x 32 - 60ns	429
Simm Verter 30-pin to 72-pin converter	21.95

OTHERS

Memory for Computer, Laptop, Notebook, & Laser Printer upgrades	call

10. MODEM & FAX

BOCA

14.4 Fax Int / Ext	**(75/95)*
14.4 Online Express Int / Ext	65/79
14.4 Voice Fax Modem Int / Ext	99/109
14.4 VSP Sound Express Fax Modem	**(135)*
28.8 Fax Modem v.34 Int / Ext	**(155/199)*
SE34SRS 28.8 Sound Expression Int	295

GARNET (5 yr warranty)

28.8 v.34 Fax Int	125

GVC (Maxtech)

14.4 Fax Int / Ext	**(49)/89*
14.4 Fax Modem Voice Int	69
PCMCIA 9624 Fax	99
28.8 Fax Internal	149

HAYES

Accura 144 + Fax Int / Ext	**(87/99)*
Accura 28.8/14.4 v.34 Fax Int / Ext	195/215
ESP Communication : Single Port	85
Optima 288 v.34 Fax Int / Ext Voice	369/419
Optima 288 v.34 PCMCIA w. EZ jack	299

MEGAHERTZ

PCMCIA XJ1144 Fax (MNP5)	**(115)*
PCMCIA XJ3144 Fax (MNP10)	**(135)*
PCMCIA XJ2288 Fax	**(275)*

MICROCOM

Deskporte 28.8S V.34 Fax Ext	175
Deskporte EP 28.8 V.34 Ext	229

MOTOROLA

BitSerfer ISDN Modem Int	285
BitSerfer TA210 ISDN Ext	279
BitSerfer Pro ISDN Multilink PPP	359
Life Style 28.8 Fax Modem Int / Ext	185/199
Life Style PCMCIA 28.8 V.34	259

PHOBE MICRO

28.8 Fax/ Voice Mail/ Sound all-in-1	189

PRACTICAL PERIPHERALS

PM144MT Mini Tower 144 Ext	**(89)*
PC288HC PC28.8 v.34 Fax, 230K DTE Int	269
PC288MT 28.8 v.34 Fax Ext	285
PC28.8 v.34 Ext LCD	345
PM144HC PM144FX144 Int	**(75)*
PM288HC PM28.8 v.34 Int	**(169)*
PM288MT Mini Tower Ext	**(185)*

PURE DATA

Satisfaxion 400 144/144 Fax Int	299
Satisfaxion 400e 144/96 Fax Ext	335

SUPRA EXPRESS

28.8 Fax Modem, plug & play Int / Ext	**(135/159)*

US ROBOTICS

Courier ISDN v.34 Int / Ext	435/469
Courier ISDN v.34 with NT1 Int / Ext	535/599
Courier ISDN with Analog Int / Ext	595/675
Courier v.34 28.8/14.4 Fax Int / Ext	389/419
Share Access Ethernet Fax Server	1895
Sportster 144/144 Fax MNP5 Int / Ext	95/109
Sportster 144/144 for Mac Ext	149
Sportster v.34 288 ISDN Int	375
Sportster v.34 28.8/14.4 Fax Int / Ext	185/195
Sportster v.34 28.8/14.4 Fax for MAC	215
Sportster PCMCIA Fax v.34 28.8	**(289)*
Sportster Vi 144 Fax w. Voice Mail Int / Ext	109/125
Sportster Vi 288 Fax w. Voice Mail Int / Ext	209/225
Sportster Vi 28.8 v.34 w. DSVD Int	275

XIRCOM

CM-28 28.8 Fax PCMCIA	275

ZOOM (7 yr. warranty)

144 Fax Modem & Voice Int / Ext	**(99/149)*
28.8 V.34 14.4 Fax Int / Ext	149/175
Comstar 28.8 Voice V.34 Tel Int	199

ZY-XEL

Elite 2864 28.8 Ext upgrade to ISDN	425
Omni 28.8 Ext Voice Serial / Parallel	314/315
U1496E 16.8 Voice 14.4 Fax, LED Ext	299

OTHERS

CommShare 550 Phone & Fax Auto-switch	**(69)*
CommShare 750 4 Port Switching	**(89)*
14.4 Fax Modem Int	59

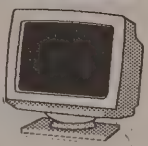
FAX MACHINE :

LUMINA

Series 2000, Model 2096, Fax/ Scan/ Copy, 256k	389
Series 2000, Model 2144, Fax/ Scan/ Copy, 1MB	525

11. MONITOR

For your comparision,
we display same pictures
on 20 big monitors
using VGA splitters.



VGA Monitor Splitter : 4 to 1	155
VGA Monitor Splitter : 8 to 1	195
VGA, Keyboard & Mouse Switch : 2 Way	24.95
VGA, Keyboard & Mouse Switch : 4 Way	34.95
VGA Switch 1 to 4 Way	13.95

EYE Q

SM1411 14" Flat Mono Amber	85
SM1418 14" SVGA Mono	99

HITACHI

CM1587M 15" Flat 1280 x 1024 .28 NI	379
CM1786M 17" 1280 x 1024 .28	649
CM2011M 20" 1600 x 1200 .28 NI	1295
CM2110M 21" 1600 x 1200 .26	1645

IIYAMA

MF-8617E 17" 1600 x 1200, 69Hz, .26 NI	**(729)*
MT-9017E 17" 1600 x 1200, 72Hz, .25 NI	**(825)*
MF-8221E 21" 1600 x 1280, 76Hz, .28 NI	**(1739)*
MT-9021E 21" 1600 x 1280, 76Hz, .30 NI	**(1715)*

KFC

CA1507 15" Flat 1280 x 1024 .28 NI LED	375
CA1515DL 15" Flat 1280 x 1024 .28	355
CA1718 17" Flat 1280 x 1024 .26	595

MAG

DX15T 15" 1280 x 1024 .26 NI	419
DX1595 15" 1280 x 1024 .28	389
DX17T 17" 1280 x 1024 .26 NI	**(829)*
DX1795 17" 1280 x 1024 .28	709
MXP17F 17" Flat 1600 x 1280 .26 NI	**(849)*

MAXVISION

HL-7864 Deluxe 17" 1280 x 1024 .28 NI	585

NANAO

F2.17 17" 1280 x 1024 .28 NI	875
F2.17EX 17" 1600 x 1200 .26 NI	995
T2.17 17" 1280 x 1024 .25 NI, Trinitron	1285
T2.17TS 17" 1280 x 1024 .25, Diamondtron	1039
T2.20 20" 1600 x 1280 .30 NI, Trinitron	1925
FX2.21 21" 1600 x 1280 .28	2895

NEC

XV15 15" 1024 x 768 .28	**(465)*
XP17 17" 1280 x 1024 .28 NI	1069
XV17 Plus 17" 1024 x 768 .28 NI	849
- Monitors Lens for 17XV / 17XE / 17XP	79/99/99
XE21 21" 1280 x 1024 .28 NI	**(1675)*
XP21 21" 1600 x 1200 .28 NI	**(1999)*

NOKIA

447L 17" 1024 x 768 .28 NI	689
447X-258 17" 1600 x 1280 .25 NI	975
445X 21" 1600 x 1280 .26	1945
445X 21" 1600 x 1280 .26 TCO	2055

OPTIQUEST

1000S 14" 1024 x 768 .28 NI	**(249)*
1500D 14" 1280 x 1024 .28 NI	349
2000DC 15" 1280 x 1024 .27 NI	389

PANASONIC

C1791E 17" 1280 x 1024 .28 NI	**(689)749*

PRINCETON

Ultra 17 17" 1280 x 1024 .28 NI	595
Ultra 17 Plus 17" 1600 x 1280 .28 NI	679

PROTON

GM1449A 14" 1280 x 1024 .28 NI, built-in speakers & earphone	265
GM1560 15" Flat 1280 x 1024 .28 NI	335
GM1764M 17" Flat 1280 x 1024 .28 NI, Digital, built-in speakers	659

SAMSUNG (SyncMaster)

15GLi 15" 1280 x 1024 .28 NI, at 60Hz	429
17GLi 17" 1280 x 1024 .28 NI, at 60Hz	739
17GLSi 17" 1600 x 1200 .26 NI, at 68Hz	**(849)*
20GLS 20" 1600 x 1200 .28 NI, at 66Hz	1299

SHAMROCK

SRC-1407 14" 1024 x 768 .28 NI, Digital	249
SRC-1502 15" 1280 x 1024 .28 NI, Digital	329
SRC-1703L 17" 1280 x 1024 .28 NI, Digital	589
SRC-1702L 17" 1600 x 1280 .26 NI, BNC	689
SRC-2002L 1600 x 1280 NI	1199
SRC-2102L 1600 x 1280 Ni	1549

SONY

15SX 15" 1280 x 1024 .25 NI	445
17SFII 17" 1280 x 1024 .25	889
17SEII 17" 1600 x 12000 .25 NI, plug & play	1089
20SFII 20" 1600 x 1200 .30 NI, plug & play	1745

TATUNG

CM14UHE 14" 1024 x 768 .28 NI	239
CM15UDE 15" 1024 x 768 .28 NI	349

TVS

9" 1024 x 768 VGA Mono	119

VIEWSONIC

14ES 14" 1024 x 768 .28 NI	285
15ES 15" 1024 x 768 .28 NI, MacII	385
15G 15" Flat 1280 x 1024 .28 NI	425
15GA 15" 1280 x 1024 .28 NI, built-in speakers	509
17EA 17" 1280 x 1024 .28 NI, plug & play	665
17GA 17" 1280 x 1024 .27 NI, plug & play	779
17GS 17" 1280 x 1024 .27 NI	699
17PS 17" 1600 x 1280 .25 NI, plug & play, TCO	899
PT770 17" 1600 x 1280 .25	**(935)*
20G 20" 1600 x 1280 .28 NI, MacII, TCO	1265
21PS 21" 1600 x 1280 .26 NI, MacII	1649
PT810 21" 1600 x 1280 .30	**(1969)*

WYSE

WY-1450A 14" 1024 x 768 .28 NI	269
WY-15E 15" 1280 x 1024 .28 NI	409
WY-60 Terminal 14" : Amber/ Green/ White	335 each
WY-65 Terminal 14" : Amber/ Green/ White	359 each
WY-150 Terminal 14" : Amber/ Green/ White	299 each

12. MOTHERBOARD

AIR (w/o cpu)

486MI : 486-DX2-66 256k, 3VLB, built-in AT I/O	149

ASUS (w/o cpu)

486-DX2-66 256k PCI, built-in IDE+SCSI I/O	209
P55TP4NX 586-166 PCI, 256k, w. Burst SRAM	209
P55TP4NX 586-166 PCI, 512k, w. Burst SRAM	259
586-90 / 100 256k PCI EISA, dual processor	565

IBM (Opal)

486SLC-66 VLB 64k w. CPU & Math Proc	139

INTEL (w/o cpu)

Atlantis 586-166Mhz PCI, Triton, built-in IDE I/O, w. 256k Burst SRAM, ATI Mach 64 1MB SVGA & w. Vibra Sound	369
Endeavor 586-166Mhz 256k PCI, Triton, IDE I/O	219
Endeavor 586-90/ 166MHz PCI, Triton, built-in IDE I/O w. Pipeline Burst SRAM & Vibra Sound	289

LYNX (USA made, w/o cpu)

486-33 / DX2-66 256k VLB Green PC, 30-pin	125

M-TECH (w/o cpu)

486-DX2-66 256k VESA, 30-pin & 72-pin	129
486-DX4-100 256k PCI, 30-pin & 72-pin	149
586-133 256k PCI, 30-pin & 72-pin	179
- w. Burst SRAM 256k	209
586-166Mhz 256k w. Burst SRAM Triton	169

MICRONICS (w/o cpu)

BCP 386-33 64k, 4MB max	55
486-33 / DX2-66 256k VLB	155
JX3WB 486-DX2-66 256k VLB w. write-back cache	209
486-33 / DX2-66 256k VLB EISA-3	249
M54PI 586-133Mhz w. IDE I/O (Neptune)	279
M54Hi 586-166 256k, Triton, w. Burst SRAM	355
M54HI 586-166MHz 256k, Triton	299

NexGEN (Nx586 processor)

P100 w. 256k, 3PCI, EIDE, I/O	269
P110 w. floating PCI, EIDE, I/O	329
P120 w. 256k, 3PCI, EIDE, I/O	345

SUPER

P55CMS 586-90 / 180 256k, PCI, built-in IDE I/O	
- w. Burst SRAM 256k, w/o cpu	245
- w. Burst SRAM 512k, w/o cpu	295
P6SOF Single Pentium Pro 200/ 180/ 166/ 150Mhz, w. IDE I/O	1215
- CPU	Call
P6SOF Dual Pentium Pro 200/ 180/ 166/ 150Mhz, w. IDE I/O	1515
- CPU	Call

13. MOUSE & JOYSTICK

AGILER

AGM-800E Serial 400 dpi	12.50
ATB-610 Serial Trackball	10.95
Master Plus 400	16.50

ANCER (black)

3-button	19

KENSINGTON

Expert Bus 4.0	115
Expert Serial & Trackball 4.0	95
Thinking Mouse (serial & PS/2)	79

LOGITECH

Cordless II	72
First Serial / First Trackball	31/49
Mouseman Bus / PG15 Bus oem	64/45
Mouseman Serial	45
Serial Combo PC & PS/2 oem / reg	32/45
Trackman II / Trackman Live Cordless	65/125
Trackman Marble (for Win'95)	75

MICROSOFT

Bus 2.0 400dpi w. Bus Card oem / reg	65/79
Home Serial 1.0	39.95
PS/2 2.0 (round connector) oem / reg	35/59
Serial 2.0 400dpi oem / reg	29/55

MOUSE SYSTEMS

Altes Mouse	9.95
Mouse! Serial w. Pad	19
Omni Mouse (new version)	26
PC Mouse III (3-button optical)	49.50
PC Trackball II	39.95
ProAgio (5-button serial)	45
Serial Bus Card (9IRQs)	29

JOYSTICK :

LOGITECH

Wingman Extreme / Wingman Standard	47/29.95

MICROSOFT

Side Winder 1.0	29
Side Winder 3D Pro	**(55)*

MOUSE SYSTEMS

Cobra (joystick)	9.95

THRUSTMASTER

ACM Gamecard	29.95
F-16 FLCS	125
F-16 TQS	129
Flight Control System MK II	65
- w. US Navy Fighters	85
Flight Control System Pro	119
Formula T2	119
Rudder Control	114
Weapon Control MKII	109
UPROM	29.95
XL Action	28

OTHERS

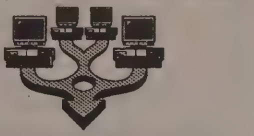
Command Pad (by Quickshot)	9.95
CyberFlight Joystick + Dark Forces	39
CyberPad + Doom II	34
Game Gun + Crime Patrol	49
Gravis Analog Pro	29
PC Gamepad	19.95
Touche' Touch Pad for Serial / PS/2	**(55/55)*
Color Mickey Pad / Flinstone Mouse Pad	5.99/7.99
Lion King Mouse Pad	5.49
Star Trek Mouse Pad / Star Wars Pad	7.99/7.99
Walt Disney Mouse Pad	4.99
Winnie the Pooh Mouse Pad	5.49

(price) .... SPECIALS / on SALE

(oem) .... $, bunddled with hardware only

14. NETWORK

The #1 Network Products Reseller
Over 30 Brand Names for Selelction



Educational Discount Prices Available
Please Call for Details

3COM

3C250 FMS 100BaseTX Fast 12 Port HUB	*(1795)
3C509B Etherlink III Coax / 5-Pack	*(109/466)
3C509B Etherlink III TPO oem	*(69)
- single reg / 5 Pack	*(105/415)
3C509B Etherlink III TP+AUI oem	*(78)
- single reg / 5-Pack	*(108/449)
3C509B Etherlink III Combo oem	94
- single reg / 5-Pack	119/525
3C562 PCMCIA Lan + Modem TP	469
3C579 Etherlink III EISA Coax / TP	218/219
3C589 PCMCIA TP / 5-Pack	*(155)/699
3c589 PCMCIA Combo / 5-Pack	*(199)/925
3C590 PCI TPO oem	115
- single reg / 5-Pack	135/565
3C590 PCI Combo oem / reg	145/*(165)
3C595-TX PCI 10/100 TP oem	149
- single reg / 5-Pack	169/725
3C597-TX EISA 10/100 TP	239
3C861 Impact ISDN S/T Interface Int	399
3C862 Impact ISDN U-Interface, built-in NT1, Int	439
3C871 Impact ISDN Digital Modem Ext	369
3C872 Impact ISDN with V.32bis Ext	545
3C16170 Link Builder (12TP)	335
3C16180 Link Builder (9TP + BNC)	185
3C16670 Link Builder FMSII 12 Port	565
3C16671 Link Builder FMSII 24 Port	995
3C30500 Linkswitch 500 Stackable 10 Port	2595
3C16900 Linkswitch 1000 24 Port 1 Fast	3195
3C16640 Linkswitch 1200 6 Port, FDDI Link	4595
3C22000 Linkswitch 2200 16 Port, FDDI	6395

ADAPTEC

ATM 25.6Mb/s 128k PCI	299
ATM 25.6Mb/s 512k PCI	389
ATM 155 Mb/s 512k PCI UTP	725

ALLIED TELESYN

MicroHub MR420T 4 Port (4TP + AUI)	129
MicroHub MR820TR 8 Port (8TP + AUI + BNC)	139
Transceivers: MX10 (AUI - BNC) / 210T (AUI - TP)	29/29
Workgroup Hub 3012T 12 Port (12TP + AUI)	239
Workgroup Hub 3012TR 12 Port (12TP+AUI+BNC)	279
Workgroup Hub 3016TR 16 Port (16TP+AUI+BNC)	335
Workgroup Hub 3024TR 24 Port (24TP+AUI+BNC)	469

ARTISOFT (Lantastic)

Corstream Server 5-user (8340)	*(399)
- upgrade to dedicated server	59
HUB: 8 Port (8TP + BNC)	189
HUB: 12 Port (12TP + BNC)	225
Lantastic for Windows '95	89
Lantastic Z (2 stations)	89
Lantastic 6.0 Starter Kit Coax 2-user	235
Lantastic 6.0 Add On NR-SI 2000C	115
Lantastic 6.0 Add On NR-SI 2000T	*(119)
Lantastic 6.0 for single / 5 / 10-user	79/329/599
- upgrade for single / 5 / 10-user	39/99/149
Lantastic for OS/2	99
Lantastic for TCP/IP single / 5-user	199/785
Lantastic PowerSuite :	
- 1 / 5 / 10 / 25-user	149/599/1075/2295
- conversion for 1 / 5 / 10-user	89/345/595
NR-SI 2000C Coax / 5 pk / 10 pk	*(74/338/617)
NR-SI 2000T TP / 5 pk / 10 pk	*(75/339/619)
NR-SI 2000A Combo	*(89)

ASANTE (for Mac & PC)

10T HUB 8 Port (8TP + 1BNC)	*(145)
10T HUB 12 Port (12TP + 1BNC + 1AUI)	*(265)
EtherPAC 2000+ T	*(55)
Fast Ethernet 100BaseTX 12 Port HUB	*(1475)
FriendlyNet with BNC Adapter / TP Adapter	59/55

ASCEND

ISDN Pipeline 25 Single / w. NT1	599/725
ISDN Pipeline 50 Single / w. NT1	735/875
ISDN Pipeline 50 w. UBRI	1250

ATTACHMATE

Products	Call

BOCA

BEN110 ISA TP / BEN120 Combo	55/65
BEN210 8 Port HUB	125
BEN1VL VLB TP / BENPI PCI 32 bit Combo	69/*(79)

CASTELLE

JetPress MIO TP (network printer server)	389
JetPress XIO Coax + TP	429
LANPress (print server connects up to 4 printers)	
- Ethernet Thick/Thin Coax (1P 3S)	475
- Ethernet 10BaseT (1P 3S)	475
- Ethernet BNC & 10BaseT (2S 2P)	435

CHEYENNE

Arc Serve NLM for Win	
- 5 / 10 / 25 / 50-user	249/475/825/995
Arc Serve for Win NT Single Server	*(475)
Arc Serve for Win NT Enterprise	*(795)
Arc Serve for Mac - 5 / 20-user	159/309
Arc Solo Backup s/w for Dos / for Win	119/118
Fax Server NLM - 5 / 10 / 25-user	255/325/449
Inoculan for Win'95 (Anti-Virus)	46
Inoculan for Win NT Workstation	59

CISCO

Lan to Lan Personal Office ISDN - BRI	495
Lan to Lan Remote Office ISDN Single BRI	1295

CNet (Advanced Network)

2000E+ Coax / 2000E+ TP	32/29*
2000E+ Jumperless Combo	35
3270 Emulation for PC / for PS/2	175/195
4020ERP 2 Port Repeater Coax	*(179)
5250 Emulation for PC / for PS/2	199/235
8000TPC HUB: 12 Port Stackable	299
8800TPC HUB: (8TP + BNC)	*(95)
8816TPC HUB: (16TP + BNC)	*(225)
8900TPC 12 Port SMNP Slave HUB	465
8910TPC 12 Port SMNP Master HUB	775
Personal Netware 2-user Coax / TP	109/*(99)
Personal Netware single-user Combo	*(59)

COGENT

EM100 PCI Fast-TX, 32 bit bus mastering	219
EM400 PCI Quarlet Fast (4UTP)	995
EM525 Ethernet 16 Combo	*(69)
EM595TP Ethernet PCMCIA UTP	189
EM932 EISA 32 bit Coax / TP	224/225
EM960 32 PCI Full Duplex TP / Combo	*(119/129)
EM964TP 32 PCI 4-Port Full Duplex TP	469

DANPEX

ArcNet & Token Ring products	call
1616i SNMP Intelligent 16 Port Hub	635
1616M SNMP Manageable 16 Port Hub	395
6200P2 PCMCIA BNC+TP	115
7000P3 32bit VLB Combo	*(75)
9400P3 32bit PCI Combo	*(79)
EN-500 5 Port Mini HUB (6TP)	85
EN-800A Slim 8 Port HUB	115
EN-1600 16 Port HUB	235
ER-400 4-port Repeater Coax	299
ET-510 UTP to AUI Translator	107
ET-509 UTP to BNC Translator	109
FE-1000TX ISA 100BaseTX 10/100	*(145)
FE-1400TX PCI 100BaseTX 10/100	*(149)
PrintMate PM-NW (for Netware)	269
PrintMate PM-TCP (for SUN, UNIX)	279

DCA

IRMA Workstation 2.1 for Dos / for Win	259/359
IRMA 3270 Conversion ISA	445
IRMA 3270 for Mac II / LC / SE	735

DEC

Bridges, Routers, Hubs	Call

DIGIBOARD

Data Fire : Client ISDN (2B, 1D, 128Kb/s)	395
IMAC Bridge 1 ISDN / Dual IMAC	1165/1595
PC IMAC-ISA : Server, 1ISDN	550
PC IMAC/4-1 : Multi ISDN Expension	695
PC IMAC/4-2 / PC IMAC/4-4	1095/2195

EMULEX

Print Server & Sharing Units	Call

FARALLON

Connection Products for PC & MAC	Call

HP

Advanced Stack 8 Port HUB 10BaseT	245
Advanced Stack 12 Port HUB	575
- with SMNP	895
Advanced Stack 24 Port HUB	999
- with SMNP	1329
J2550A Jet Direct TP (for HP 4 series)	315
J2552A Jet Direct Combo (for HP 4 series)	365
J2382B Jet DirectEX (for HP 5P)	349
J2593A Jet DirectEX Plus 3 Combo	449

IBM

- Ether 16 Coax / TP / Combo	69/69/79
ISDN Wave Runner ISA	495

INTEL

EILA 8225 EtherExpress 32 Flash EISA Combo	219
EILA 8265 PRO/100 for EISA	*(199)
PILA 8465B PRO/100 PCI TP oem / reg	135/*(155)
EtherExpress Pro 8/16 bit cards :	
- PCLA 8200 BNC + AUI + TP	125
- PCLA 8200 5 Pack	*(525)
- PCLA 8210 BNC + TP oem / reg	*(85/104)
- PCLA 8210 5 Pack	*(449)
- PCLA 8220 TP oem / reg	*(74/99)
- PCLA 8220 5 Pack	*(439)
- PCLA 8205 Flash BNC+AUI+TP	135
- PCLA 8205 5 Pack	*(539)
- PCLA 8215 Flash BNC + TP / 5 Pack	125/499
- PCLA 8225 Flash TP / 5 Pack	119/469
EtherExpress Stackable 12 Port 100 TX Hub	1695
LAN Project 1.5 (virus protection)	685
LAN Sight Support 4.0	345
LAN Spool s/w 386 NLM v3.5A	425
MCLA 8120 MCA TP	175
Netport II Thin & Thick	395
Netport II 10BaseT	399
Netport Express XL / 3-pack	465/1295

LANPRO

2000/T 16 bit TP	*(29)
2000RAL 16 bit Combo	*(33)
EP3020A Pocket Combo	109
EM5100 PCI Combo	79
HUB : 8 Port (8TP + BNC)	*(99)
HUB : 16 Port (17TP + 1AUI + 1BNC)	*(199)
HUB : 16 Port (17TP + 2BNC + 2AUI)	*(225)
Personal Netware Coax Starter Kit	125
2000PXA PNP Full Duplex Combo	38

MEGAHERTZ

EM1144T PCMCIA Ethernet TP & 14.4 Modem	*(355)
XJ10BT PCMCIA Ethernet TP	*(149)
XJ10BC PCMCIA Ethernet Combo	*(175)
XJEM 3288T: Modem 28.8 + Ethernet TP	429
XJEM 3288C: Modem 28.8 + Ethernet Combo	455

MICROCOM

Lan Express 2000 4 Port / 8 Port	2550/3550

MICRODYNE

EH800E 8 Port HUB	*(139)
EH1200E 12 Port HUB	*(169)
NE2000+ Coax / 5 pack	*(79/349)
NE2000+ TP / 5 pack	*(75/329)
NE2000+ Combo / 5 pack	*(85/399)
NE2500 Combo, plug & play oem	*(69)
NE3200 EISA Coax / TP	445/445
NE3210 EISA 32 bit Combo	185
NE5500 32 bit PCI	*(119)
Synchronous .35 WAN Adapter / .35+	450/869

NATIONAL SEMICONDUCTOR

InfoMover NE2000+ Coax / 5 pack	*(49/339)
InfoMover NE2000+ TP / 5 pack	*(65/299)
InfoMover NE2000+ Combo / 5 pack	79/*(399)
InfoMover NE4100 PCMCIA Coax / TP	*(168/169)

NETWORTH

100 Base TX 8 Port HUB	1375

NOVELL

Dos 7 (w. Personal Netware) oem / reg	45/55
Lan Workplace 5.0 single / 10-user	295/1295
Netware 3.12 (3.5" FD or CD)	
- 5 / 10 / 25-user reg	*(595/1365/2065)
- 50 / 100 / 250-user reg	2875/3995/7185
Netware 4.1 (CD only)	
- 5 / 10 / 25-user reg	*(595/1365/2065)
- 50 / 100 / 250-user reg	2875/3995/7185
Netware Connect 2 Ports / 8 Ports	375/1395
Netware Connect 32 Ports	3895
Netware Management Agents	335
Netware NFS v1.2C	2850
NFS Client for Lan Workplace	205
Personal Netware oem / reg	39/75
Unixware Personal Edition v2.01 - CD version	319
Unixware SDK v2.1 - CD version	105

PALINDROME

Network Archivist NLM 3.1A	*(395)

SHIVA

LanRover/2E Plus 3.5 Async TP v.34	1695
NetModem/E 28.8 Ether BNC + TP	1295

SMC

Ether EZ TP	*(99)
Ether EZ Combo oem / reg	*(79)/115
Elite Ultra 32 EISA Combo	215
Etherpower PCI TP (8432T)	*(139)
Etherpower PCI Combo oem / reg	*(125/155)
Etherpower PCI 10/100 (9332DST)	*(155)
Netware Boot ROM for Ethernet v1.3	29.50
Tiger HUB: 100TX 16 Port	2895
Tiger HUB: 3212TC (12TP + BNC + AUI)	369
Tiger Switch XE 24 Port	6895

THOMAS CONRAD

TC5143T ISA TP / 6-pack	79/395
TC5048T PCI TP / 6-pack	145/635
TC5048T2 PCI Combo / 6-pack	175/785

WISECOM

E300CT PCI 32 bit Combo	65
H008CAT 8 Port HUB (8TP + AUI + BNC)	*(89)
P200CT 16 bit ISA Combo, plug & play	45
R200CT 16 bit ISA Combo	*(29)

XIRCOM

ISDN Basic Rate Adapter	*(359)
PCMCIA CE2-10BT TP	*(139)
PCMCIA CE2-10BC Combo	*(175)
PE3-10B2 Pocket Adapter Coax	*(255)
PE3-10BT Pocket Adapter TP	*(259)
PE3-10BC Pocket Adapter Combo	*(279)
PS-CEM28-BT 28.8 Modem + Ethernet TP	425
PS-CEM28-BC 28.8 Modem + Ethernet Combo	495

OTHERS

CD Link Access for Novell Netware	
- 5-user / 10-user / 25-user	79/159/225
Corel SCSI Network Manager	415
Meridian CD-Net 10-user	449
Microtest Discport CD Rom Server Ethernet	699

CABLES & ACCESSORIES :

10BaseT, Level 3 plenum 1000'	165
Belden 8259, RG58 1000'	165
RG58 U 500' / 1000'	59/99
RG58 A/U 500' / 1000'	75/129
Twisted Pair 2-pair, PVC, Level 3, 500' / 1000'	45/59
TP 4-pair, PVC, Level 3, 200' / 500' / 1000'	35/55/89
Twisted Pair 4-pair, PVC, Level 5, 500' / 1000'	79/135
Custom-made Cables, Cross-Overs available	**call**

15. NOTEBOOK

ACER

ACERNOTE PRO :	
Model 954, P-75, 8MB RAM, 256k, 810MB HDD, 10.4" Dual Scan Color, w. Windows '95	2675
Model 955, P-75, 8MB RAM, 256k, 540MB HDD, 10.4" Active Color	3085
Model 957, P-75, 8MB RAM, 256k, 810MB HDD, 10.4" Active Color	3175
ACERNOTE LIGHT	
Model 352, DX4-175, 8MB RAM, 256k, 420MB HDD, 10.4" Dual Scan Color, 1.44MB FD, Win'95	2069
Model 355, Cyrix 5x86/100, 8MB RAM, 500MB HDD, 10.4" Dual Scan Color, 1.44MB FD, Win'95	2279

AST, NEC

Laptops / Notebooks	call for current prices

SAMSUNG

SP758C Pentium 75MHz, 8MB RAM, 10.4", DSTN, 520MB HDD, Type II & III PCMCIA	2499
SP788T Pentium 75MHz, 8MB RAM, TFT, 10.4" 810MB HDD, Type II & III PCMCIA	2945
SP918T Pentium 75MHz, 8MB RAM, 10.4", TFT, 1.3GB HDD, Type II & III PCMCIA	3195

TOSHIBA

Laptops / Notebooks	call for current prices

OTHERS

Smart Book IV-P Pentium 586-90Mhzm 16k, 8MB RAM, 340MB HDD, 1.44MB FD :	
- w. Active Color 75Mhz	2229
- w. Active Color 90Mhz	2299
- w. Dual Scan Color 75Mhz	1959
- w. Dual Scan Color 90Mhz	2019
- w. VLB Docking Station	425
Smart Book V-Pro w. CD Rom :	
- w. Active Color 100Mhz	2819
- w. Active Color 133Mhz	3099
- w. Dual Scan Color 100Mhz	2639
- w. Dual Scan Color 133Mhz	2869
9200 9.5/10.4" Viewable Screen size, 4MB (expandable to 36), VLB w. 1MB video ram, removable HD, built-in speaker & microphone :	
- 486-DX2-66, 340MB (DSTN)	1549
- 486-DX2-66, 340MB (TFT)	1899
- 486-DX4-100, 340MB (DSTN)	1589
- 486-DX4-100, 340MB (TFT)	1919

16. POWER SUPPLY

AMERICAN POWER CONVERSION

BK-280 Back-UPS (200W)	105
BK-400 Back-UPS (300W)	154
BK-450 Back-UPS (325W)	179
BK-600 Back-UPS (425W)	249
BK-900 Back-UPS (650W)	345
BP-280 Back-UPS Pro PNP	159
BP-420 Back-UPS Pro PNP	235
BP-650 Back-UPS Pro PNP	289
SU-450 Smart-UPS (486, 586 WS)	285
SU-700 Smart-UPS (486, 586 FS)	349
SU-1000 Smart-UPS (486, 586, FS & WS)	485
SU-1400 Smart-UPS (multiple FS & WS)	639
SU-2200 Smart-UPS	1150
SUVS-420 Smart Value Server	239
SUVS-650 Smart Value Server	295
SUVS-1000 Smart Value Server	415
PowerChute Plus :	
- for Novell	65
- for OS/2, Lan Server, 3 Com	75
- for Unix / Xenix	99
- for Windows NT	69
Surge Arrest (PER 7)	17.99
Surge Arrest w. TEL (PER 7)	24.99
Surge Protector (P7)	9.99

PC POWER COOLING

CPUcool for 486 or 586-90/100	19.95
Silencer Slim 205	99
Standard 230	
- for Desktop	85
- for Full Tower	85
Silencer 270	
- for Slim (baby or mid tower)	135
- for Full Tower	159
Turbo Cool 300	
- for Slim (baby or mid tower)	134
- for Desktop	169
- for Full Tower	165
Turbo Cool 400	
- for Slim	*(199)
- for Full Tower	*(199)
Turbo Cool 450 for Full Tower	299
Turbo Cool 450 for Full Tower (3.3 volt)	325
Turbo Cool 550 for Full Tower	375
Twinpower 900 (redundant)	925

Accessories :

Multimedia DT-890B	19.95
Multimedia DT-830B	7.95
Multimedia M-3900	16.95
Multimedia E-530B	9.50
Power Center Switching Systems	13 50
Test Probe	1.99
Tool Kit	7.95

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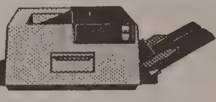
*(price) .... SPECIALS / on SALE

(oem) .... $, bunddled with hardware only

17. PRINTER / PLOTTER



BROTHER

HL-630 Laser 6ppm	399
HL-645 6ppm, 1MB RAM	459
HL-655M for PC & MAC, 2MB RAM	599

CANON

BJ-10SX / w. Sheet Feeder	_*(195/205)_
BJ-200EX Bubble Jet, 360x720dpi	_*(215)_
BJC-610 Ink Jet, Color, Par, 720dpi	549
BJC-4100 Ink Jet, Color, 360x720dpi	375

CITIZEN

GSX-230 Fonts & Quiet	189
GSX-240 Scalable Fonts & Quiet	245
GSX-345 24 pin, 132 column	365
Projet II Ink Jet	229

Accessories:

Color Option for GSX-130	45
Color Option for GSX-145	65

DEC (Digital Equipment)

DecLaser 5100 w. 6MB	1125
DecWriter 500i, 300dpi, 5ppm	285
- Color Upgrade	39.95

EPSON

FX-870 9-pin	299
LQ-570 Plus 24-pin	259
LQ-870 24-pin, Par	455
LQ-1070 24-pin, Wide	399
Stylus II Color Inkjet 720/360dpi PC & Mac	399
Stylus IIS Color 720dpi PC	_*(259)_
Stylus Pro Color, laser quality	589
Stylus Pro XL	1735

Accessories :

Black Ink for II & IIS	19.95
Color Ink for II & IIS	29.95

HP (w. toner)

Color Laser Jet	5535
Desk Jet 600 / 600C / 660C	245/259/375
Desk Jet 850C / 855C	485/499
Desk Jet 1600C PC, Mac	1329
Desk Jet 1600C Postscript PC, Mac	1919
Ink Jet Plotter Color C3190A	2395
Laser Jet 4+ / 4M+	1379/1899
Laser Jet 4V / 4MV (B size)	1895/2695
Laser Jet 5L	485
Laser Jet 5P / 5MP	*(829)/1029
Laser Jet 5Si / 5SiMX	2775/3895
Office Jet (printer- fax- scanner- copier) 4-in-1	699

Accessories :

Color Kit C3067A for 540 / C4533A for 600	45/47
Duplex C3762A for 5Si / 5SiMX	479
Envelope Power Feeder 75 Sheet (HP4)	279
Legal, Letter or A4 250 Sheet Tray (HP4)	99
Legal, Letter or A4 500 Sheet Tray (HP4)	109
Optional 500 Sheet legal Letter A4 (HP4)	279
Postscript (C2013A) for 4Si	575

Ink Cartridges :

Black (HP51626A) for 500, 540, 560	24.45
Color (HP51625A) for 500C, 550C, 560C	28.95
Black (HP51629A) for 600, 660	24.95
Color (HP51649A) for 660C	29.25
Black (HP51645A) for 850C, 855C, 1600C	19.50
Color (HP51641A) for 850C, 855C, 1600C	27.95
Black (HP51640A) for 1200C	24.95
Cyan (HP51640C) for 1200C	29.95
Magenta (HP51460M) for 1200C	29.95
Yellow (HP51640Y) for 1200C	29.95

Toner Cartridges :

Toner (HP92295A) for II, IID, III, IIID	69
Toner (HP92275A) for IIP, IIP+, IIIP	69
Toner (HP92298A) for 4, 4M, 4+, 4M+	109
Toner (HP92274A) for 4L, 4ML, 4P	65
Toner (HPC3900A) for 4V, 4MV	139
Toner (HP92291A) for IIISi, 4Si, 4SiMX	129

LASER MASTER

Winjet 1200 (postscript for HP4)	_*(549)_

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	_*(599)_

OKIDATA

ML184T 9 pin, Par	239
ML320 9 pin, Epson compatible	335
ML380 24 pin, Epson compatible	245
ML590 24-wire	449
OL600E Laser	399
OL610E Laser	499
OL610ePS Laser Postscript	_*(725)_

PACIFIC DATA

ProTracer II Ink Jet (CAD Plotter)	695

Accessaries:

HP-GAL Emulation Card	375
Ink Cartridges	19.50
Postscript Emulation Card	375
Sheet Feeder I	135
Sheet Feeder II	115

PANASONIC

1150 9 pin, 55dBA	139
2023 24 pin, Quiet	185
2130 Quiet Dot Matrix	_*(after rebate, 169)_199
2135 Quiet Dot, Color	_*(after rebate, 205)_255
3123 24 pin, Quiet, Scalable Fonts	259
3124 24 pin, Scalable Fonts, LCD	329
3626 24 pin, Quiet Wide-carriage	399
J250 Ink Jet, 300dpi, 128 nozzle printhead	_*(259)_
4430 Laser 5ppm, 1MB	665
4440 Laser 10ppm	955
4455 Postscript 11ppm	1695
5400 Led Postscript 4ppm	345
KXP-6100 600dpi 6ppm	399
SP-100 Multi-function printer	769
Accessories for 4410, 4420, 4430, 4400, 4450, 4450i, 4455...etc. available	**Call or Visit our Stores**

SEIKO

Smart Label Printer EZ30	145
Smart Label Printer Pro	245
Standard Label (2 rolls)	7.95

SUMMAJET (Plotter)

1324M Mono A - D Size	1990
1324C Color A - D Size	2250
1336M Mono A - F Size	2465
1336C Color A - F Size	2695
D Size Stand / E Size Stand	325/365

LASER PRINTER ACCESSORIES :

PACIFIC DATA

25 in One! for HP Deskjet 500	99
25 in One! for HP II, IID, IIP, IIP+, III, 4Si	245
Complete Font Library for HP III, IIID, IIIP	189
Font Bank for all HP Lasers 0.75MB	189
Pacific Connect XI : for HP II, IID, III, IIID - 5 Port 256k / 10 Port 256k / 1MB (10S)	239/259/329
Pacific DirectNet for Novell, Unix & Etherlink	299
Pacific DirectNetEX for Novell & TCP/IP	399
Pacific 4, Postscript for HP4	249
Pacific Page II/XL 4MB, Postscript for HPII	329
Plotter in a Cartridge for HPII	199

OTHERS

Auto Switch (non-power) 2 to 1	11.50
Auto Switch (non-power) 4 to 1	22.50
Data Switch 2 Way	5.99
Data Switch 4 Way	8.99

18. PROJECTOR

3M, NEC

projection products	call

PROXIMA

Desktop DP2300 LCD 8.4" 27mm 640 x 480	3750
Desktop DP2700 LCD 8.4" 33mm 640 x 480	5095
Desktop DP2800 LCD 8.4" 33mm 640 x 480	5595
Desktop 8400 LCD 16.7M Color, w. speakers	8295
Ovation 810 LCD 8.4" 2M Color, 640 x 480	2795
Portable Overhead A653 3000 Lumens	539
Portable Overhead A655 4000 Lumens	839

19. SCANNER

DELRINA

WinFax Pro Scanner	_*(299)_

HP (flatbed)

ScanJet 4C Color & Gray Scale w. Kit	935
- Auto Document Feeder	475
- Transparency	635

LOGITECH (hand)

Scanman Color + PhotoShop L.E.	189
Scanman Power Page	399

MICROTEK (flatbed color)

Scan Maker II w. Photoshop L.E.	395
Scan Maker IIHR 600 dpi w. Photoshop & OCR	795
Scan Maker IIHR 600 dpi w. Picture Publisher	599
Scan Maker IISPX 300 x 600 dpi	675
Scan Maker III w. TMA & OCR	_*(1999)_

VISIONEER

PaperPort + OCR for Win	355

20. TAPE BACKUP

ARCADA (software)

Back Up for Windows '95	65
Back Up Exec for Dos/ Win/ Netware WS	89
Back Up Exec for Netware 7.0 Enterprise	845
Back Up Exec for Netware Single Server	435
Back Up Exec for Windows NT Enterprise	795
Back Up Exec for Windows NT Server	439
Back Up Exec for Windows NT Workstation	189
Sytos Plus 2.0 for Win	95

COLORADO

DJ-35C (Jumbo 350) 340MB Int	99
DJ-35C Tracker 340MB Ext	_*(135)_
DJ-25C 680MB Int	_*(109)_
DJ-50C (Jumbo 1400) 1.3GB Int w. Controller	229
PT-10 PowerTape 1GB SCSI Int	599
PT-25 PowerTape 2GB 300Kb/s Int	965
PTE-25 PowerTape 2GB Ext SCSI	1095
Tracker upgrade fr 250MB to 350MB	39.95

CONNER

CNR-4320RT 2GB Int w. 5.25" rail	785
CNR-4350XT 2GB Ext	899
Tape Stor 350MB Int	85
Tape Stor w. cartridge 420MB Int / Ext	115/279
Tape Stor w. cartridge 800MB Travan Int	149

EXABYTE

EXB-2501 1 - 2GB SCSI-2 Int / Ext	475/629
EXB-4200 4mm Dat 2GB Int / Ext	799/975
EXB-4200C 4mm Dat 2GB Int / Ext	895/995
EXB-8205XL 8mm Dat 3.5 - 7GB Int / Ext	1275/1499
EXB-8505XL 8mm Dat 7 - 14GB Int / Ext	1985/2275

HP

C1534 4mm Dat 2-4GB SCSI Int	685
C1536 4mm Dat 4-8GB SCSI Int	785
C1533 4mm Dat 8-16GB SCSI Int	925
Colorado T1000 850MB Travan w. cartridge Int	185
Colorado T1000 850MB, printer port Ext	219
HP Mounting Frame to 5.25" for C1533	27
HP Mounting Frame to 5.25" for C1534	25
HP Mounting Frame to 5.25" for C1536	25
Surestore 2000i (C1525F) 2GB w. Kit Int	895
Surestore 2000e (C1520F) 2GB w. Kit Ext	1075
Surestore 5000i (C1526F) 4GB w. Kit Int	1045
Surestore 5000e (C1521F) 4GB w. Kit Ext	1195
Surestore 6000i (C1528F) 8GB w. Kit Int	1225
Surestore 6000e (C1529F) 8GB w. Kit Ext	1395

IOMEGA

Ditto 800MB Travan Int	149
Ditto 800MB Travan Parallel	155

NOVASTAR (software)

Backup / Restore for MAC	58
Novaback 4.58 for Dos	59.50
Novaback for Windows SCSI / QIC	56/59
Novaback for Win '95 SCSI / QIC	55/58
Novabakc for OS/2	58

OTHERS

COMBYTE : DP1800EA 800MB Int	135
SUMMIT : SE250 Int	135

TAPE CARTRIDGE :

3M - DC2120XL (350MB)	16.95
- MC3000XL (680MB)	26.50
- Travan (800MB), TR-1	27.95
- Travan (1600MB), TR-3	29.95
IBM - DC2120 (QIC 80)	13.95
Exabyte - 8mm 112M (5GB)	9.95
- 8mm 160MXL, for XL drives	15.95
- 12C 8mm Cleaning Cartridge	19.95
- MC3000XL (1GB)	26.95
HP - 92283B 4mm 90M (2GB)	12.95
- 92300A 4mm 120M (4GB)	21.95
- 92283K 4mm Cleaning Tape 2-pack	21.95
- DT1400 (QIC 3020)	27.95
- Travan for DT-1000 / 2-pack	29.95/54.95
- Travan for DT-1000 3-pack	82

21. VGA CARD

ATI

Graphics Xpression 2MB PCI / VLB / ISA	199/199/199
Graphics Pro Turbo 2MB PCI / VLB / ISA	299/299/305
Graphics Pro Turbo 4MB PCI / 1600	429/459
Graphics Pro Turbo 4MB VLB	419
Win Turbo 64 2MB PCI / VLB	259/259

DIAMOND

Edge 3D 2120 1MB DRAM	259
Edge 3D 2200 2MB DRAM	299
Edge 3D 3240 2MB VRAM	399
Edge 3D 3400 4MB VRAM	529
Stealth 64 1MB DRAM PCI	115
Stealth 64 2MB DRAM PCI / VLB	149/155
Stealth Motion Video Player 2200	259
Stealth Video 64 2MB VRAM PCI / VLB	259/259
- 2MB upgrade	155
Stealth Video 64 4MB VRAM PCI	439

MATROX

IMP Plus 220 2MB PCI	355
Millenium PCI 2MB / 4MB	315/459
- upgrade 2MB / 4MB / 6MB	179/339/455

MEDIA VISION

ProGraphics 1024 VL 256 Color 1MB	_*(149)_

NUMBER NINE

FX Motion 330 DRAM 2MB PCI	165
FX Motion 771 VRAM PCI 2MB oem / reg	269/289
FX Motion 771 VRAM PCI 4MB oem / reg	409/429
GXe Level 12 VRAM 3MB ISA	299
GXe 64 2MB DRAM PCI	_*(139)_
Imagine 128 4MB PCI	639
Imagine 128 1600 8MB PCI	1275

SPIDER

Lynx 64 64 bit Accelerator 1MB PCI	79
Tarantula 64 2MB VRAM VLB / PCI	219/219
Tarantula 64 4MB VRAM VLB / PCI	335/335
Tarantula 64 MK II 4MB VRAM VLB / PCI	385/385

VIDEO LOGIC

928 Movie w. 1MB VRAM ISA	65

OTHERS

Boca Voyage Movie Player Accelerator VGA	285
Howard Video Camera	295
Intel Smart Video Recorder Pro	399
Movie Plus 1100 MPEF Decoder	199
Quick Cam for Win	99
Snappy (video Snapshot)	198
Tvator Pro PC/MAC VGA to NTSC Scan Converter	139
Tvator Remote Pro VGA to NTSC Scan Converter	289
V-Mate Pro (video encorder : PC to TV)	189
Video Logic Captivator	135
Video Plus (color video grabber)	185
Vitex MCP Card (monographic)	19

SOFTWARE

1. PC SOFTWARE

ADOBE

Illustrator 4.0 for Win	425
Illustrator 4.1 for Win'95	325
Pagemaker 6.0 for Win	575
Photoshop 3.0 for Win oem	_*(265)_
Photoshop 3.05 for Win 32	565
Premier 4.0 for Win - FD/CD	445

AUTODESK

Animator Studio 1.1	249
AutoCAD Lite 2.0 - FD+CD	_*(399)_
Autosketch 2.0 for Win / Win'95	135/89
Generic CADD 6.1	69

BORLAND

C++ 4.5 - CD for Dos, Win, Win32	325
- upgrade - CD	189
Delphi competitive upgrade	_*(175)_
Paradox 5.0 for Win oem / reg	49/275
- competitive upgrade for Win	_*(109)_
Paradox 7.0 for Win'95 & NT	285
- upgrade	95
Power Pak for Dos	99
Sidekick 2 for Win	45
Turbo C++ for Dos / 4.5 for Win - CD	92/79
Turbo C++ Visual Edt. for Win	79
Visual dBase 5.5 for Win / upgrade	269/118

COREL

CD Creator for Win'95	319
Corel Draw 4.0 - CD oem	45
Corel Draw 5.0 - CD	_*(395)_
- upgrade fr 3.0 - FD+CD / CD only	_*(325/285)_
- upgrade fr 4.0 - FD+CD / CD only	_*(189/165)_
Corel Draw 6.0 - CD for Win '95	_*(365)_
- upgrade fr 3.0 / 5.0	299/*(199)
Corel Flow	_*(59)_
Ventura 5.0 - FD+CD	_*(299)_

IBM

Anti Virus Desktop Edition	_*(45)_
OS/2 3.0 Warp - CD / FD	*(55)/74
OS/2 Connet / w. Windows	135/175
OS/2 Warp + Dos & Win - CD / FD	*(89)/118
Voice Type Dictation for Win (w. ISA board)	699

DELRINA

Comm Suite 7.0 for Win'95	_*(95)_
Cyber Jack 7.0 for Win'95	_*(48)_
Echo Lake (family album)	45
NetSatisfaxtion 3.0 for Novell 25-user	755
Win Comm Pro	79
WinFax Pro + Win Comm Pro	_*(109)_
WinFax Pro 4.0 - FD / CD	*(59)/89
WinFax Pro 4.1 for Network : - 10 / 25 / 50-user	599/1395/2650
WinFax Pro 4.1 Comm Server	125
WinFax Pro 7.0 for Win'95	79
WinFax Pro Starter Kit (server + 2 notes)	265

INTUIT

Quicken Deluxe 5.0 - CD / FD	59.95/59.95
Quicken Family Lawyer - CD	_*(39)_
Quicken Financial Planner '95	38
Quicken 4.0 - CD oem / reg	15/29
Quicken 5.0 for Win	39.95
Quickbook 4.0 for Win - CD / FD	125/95
QuickBook & QuickPay for Dos	99
QuickBook Prof. 4.0 for Win	185
Turbo Tax State 1995 Final	_*(19.95)_
Turbo Tax 1040 Final 1995	39.95
Turbo Tax 1040 Final Deluxe - CD	44.95

LOTUS

1-2-3 5.0 for Win / upgrade	299/99
1-2-3 4.0 for Dos / upgrade	365/99
Approach 3.0 for Win / w. 1-2-3 upgrade	99/145
cc:Mail Desktop 2.1 for Win	69
cc:Mail Desktop 10-user License	359
cc:Mail Group Pack for Win w. Organizer	595
cc:Mail Lan System 10 License	_*(545)_
- Lan System Trade-up 10 License (router)	375
cc:Mail Mobile E-Mail 2.2 for Win	135
- upgrade	75
cc:Mail Router 5.1	_*(79)_

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*(price)	_SPECIALS / on SALE_
(oem)	**$, bunddled with hardware only**

Freelance Graphic 2.01 for Win	335
- upgrade for Win / for Dos	99/99
Notes Starter Pack 3.0	850
Organizer 2.0 for Win	95
Smart Suite 3.0 / CD oem version	*295/*(125)*
Smart Suite 4.0	395
- upgrade	**(225)*
Smart Suite 96 for Win'95	389
Word Pro '96 for Win3.1 & Win'95	**(145)*

MICROGRAFX

ABC Flowcharter 4.0	315
Designer Tech. 4.1	455
Picture Publisher 5.0 for Win - CD	**(129)*
Picture Publisher for Win'95	249
Windows Draw 4.0 for Win 32	45

MICROSOFT

Educational Software Versions Available
Please Call for Details & Pricing

Access 2.0 for Win / for Win'95	289/299
- upgrade for Win'95	94
Access Developer's Kit	459
BOB (8 essential programs)	49
Dos 6.22 / upgrade	42/49
Excel for Win '95	298
- upgrade	**(89.95)*
Excel 5.0 for Win	**(285)*
- competitive upgrade	119
Flight Simulator 5.1 - CD	49.95
- Japan / Hawaii / New York / Paris / SF Scenery	19.95 each
Fortran Powerstation 32 for NT	495
Fox Pro 2.6 Single Dos or Win	**(95)*
Jana Contact 95	82
Macro Assembler 6.11 (MASM)	155
Multimedia Viewer - CD	315
Office 4.2 for Win - FD / CD	*(425)/459
- competitive upgrade - FD	275
Office Professional 4.3 - FD / CD	**(499)/559*
- competitive upgrade - FD / CD	**(345)/365*
- oem version FD / CD	**(299/199)*
Office Professional for Win '95 - FD	549
- upgrade - FD / CD	**(298/299)*
Office Proferssional + Bookshelf for Win'95 - CD	**(525)*
Office Standard for Windows '95	455
- upgrade - FD / CD	225/225
PC Mail Server 3.5	445
- 5-user / 20-user	269/865
Power Point 4.0 / competitive upgrade	*(299)/125
Profit for Win	129
Project 4.0 for Win / upgrade	415/135
Project for Win'95 / upgrade	419/139
Publisher 2.0 for Win - FD / CD	69/89
Publisher for Win'95 - FD / CD	69.50/69.95
Space Simulator	**(39.95)*
SNA NT Server / SNA NT Workstation	395/199
SQL NT Server 6.0 / upgrade	899/479
SQL NT Workstation / upgrade	479/239
System MGMT Server	629
Visual Basic 4.0 for Win'95 - Standard	**(85)*
Visual Basic Prof. 4.0 for Win - CD	445
- upgrade / competitive upgrade	89/229
Visual C++ Standard 1.52 - CD	89
Visual C++ 4.0 for Win '95 Subscription	465
- subscription renew	285
- subscription upgrade	319
- upgrade to 4.0	235
Visual Fox Pro Standard 3.0	189
- upgrade	95
Visual Fox Pro Professional	449
- upgrade	275
Visual Source Save / upgrade	475/95
Visual Test 4.0 for Win / upgrade	569/185
Windows 3.11 / upgrade	51/49.95
Windows '95	**(179)*
- oem version - FD / CD	99/99
- upgrade - FD / CD	95/95
Windows '95 Plus - FD / CD	44/44
Windows '95 Resource Kit	29
Windows NT 3.51 Workstation - CD / FD	289/287
- upgrade fr v3.1 to v3.51	95
Windows NT Server 3.51	645
- competitive upgrade	649
- upgrade Server 20 license	255
Windows NT Server + 10 Client License	925
- License: single client / 20-client	35/499
Windows NT Step-up fr 3.5 to 3.51 :	
- for server CD / FD	68/95
- for workstation CD / FD	19/45
Windows for Workgroups (reg. version)	135
- oem version in 3.5" FD	57
- Workgroups Add On 3.11 for Win	45
- Workgroups Add On 3.11 MS-DOS	52
Word for Win '95 / upgrade	295/*(89.95)
Word 6.0 for Win / competitive upgrade	289/119
Works 3.0 for Win oem	49
Works for Win'95	45
Works + Bookshelf Win'95 - CD	69

NOVELL

Perfect Office 3.0 for Win	399
Perfect Office Prof. 3.0 FD	545
- upgrade	289
Quattro Pro 6.0 for Win - CD	255
- upgrade / competitive trade-up	49/89.95
Wordperfect 6.1 for Win - FD / CD	**(235/229)*
- upgrade / educational offer version	95/85

QUARTERDECK

Cleansweep for Win '95	**(28)*
DesqView 386 + Qemm 7.5	85
DesqView/X 2.1	169
DesqView/X Network Manager (TCP/IP)	**(99)*
Game Runner 3.0	29
Internet Suite 1.0	37
Mosaic 1.0	19.95
Qemm 8.0 for Win '95	63
- upgrade	36
Web Author 1.0	45
Web Server 1.0	104

SYMANTEC

ACT! 2.0 for Win	**(169)*
C++ 7.2 for Win NT & Win'95	349
- Trade up	169
Norton Anti-Virus '95	**(69.95)*
- Trade up	29.95
Norton Anti-Virus 3.0 for Win & Dos	**(49)*
Norton Desktop 3.0 for Win oem / reg	95/112
Norton Navigator '95	89.95
Norton Speed Drive (speeds Win, Dos, CD)	69
Norton Utilities '95 / upgrade	118/55
Norton Utilities 8.0	109
On Target for Win (project planning)	89
PC Anywhere 5.0 Remote & Host for Dos	124
- v2.0 for Win	125
- for Win'95 & NT	129
Q & A for Win	159

MACINTOSH TITLES

Adobe Illustrator	375
Adobe Pagemaker 6.0	565
Adobe Photoshop for Power Mac	565
Adobe Premier	475
Claris File Maker Pro	95
Fractal Design Painter	315
FrameMaker 5.0 for Power Mac	569
Lotus CC Mail 2.2	69
Macromedia Fontographer	319
Macromedia Freehand for Mac & Power Mac	379
Macromedia Macro Model	179
Microsoft Excel 5.0	299
Microsoft Office 4.21	465
Microsoft Word 6.0	299
Netscape Navigator	38
Outlook PC File Exchange	75
Quark X'Press FD / CD	619/685
Symantec Anti-Virus 4.0 (SAM)	69
Symantec Think C	189
Symantec Utilities 3.1	95
Turbo CAD 3D	159

OTHERS

3D Eye : TriSpectives / Professional	279/459
95 Power Utilities for Win'95 (trouble shooting)	28
After Dark III - FD	29.95
- Complete After Dark - FD	39.95
After Dark for Win '95 - CD	**(18)*
- Complete After Dark for Win '95 - CD	39.95
By Design for Win	59
Caere: Omni Page Direct OCR 2.0	65
Caere: Omni Page Professional 6.0 for Win	455
- upgrade	139
Caere: Wordscan 3.0 for Win	169
Caere: Wordscan Plus 4.0	389
- upgrade	139
CA Clipper 5.2 / upgrade	479/115
CA Simply Accounting Dos / Win	69/69
Cakewalk Home Studio (music)	99
Cakewalk Professional 3.0 for Win	235
Canvas for Win	265
- Trade-up	99
Carbon Copy 6.1 Guest & Host for Dos	105
Carbon Copy 2.5 for Win	**(115)*
Check-It Pro vol.1 & vol.2	85
Check-It Pro Deluxe 2.0 for Dos	135
Claris: File Maker Pro 3.0 for Win	184
- competitive upgrade	95
Claris Works for Win	65
DacEasy Accounting 5.0 for Dos	95
- v1.0 for Win	95
Dashboard '95	47
Desk to Desk (office network for 2 - 255 user)	72
Design CAD 2D 7.0 for Win	179
Dilbert Screen Saver	26
Direct Access 5.1 for Dos	65
Disney Screen Saver	27.95
Disney: Aladdin Print Kit	**(19)*
Disney: Beauty and the Beast Print Kit	**(19)*
Disney: Dick Tracy Print Kit	**(19)*
Disney: Mickey Print Kit	**(19)*
Eclipse Fax 1.2 for Win / w. OCR	69/79
FastBack Plus 6.0 for Dos	119
Fax Works Pro 3.0	**(29.95)*
Floor Plan Plus 3D competitive upgrade	47
Form Buster 2.1 - FD	35
Form Buster Plus - CD	49.95
Fractal Dabbler 2.0	46
Fractal Design Painter 4.0 for Win '95	339
Fractal Sketcher for Win	49
FrameMaker 5.0 for Win	559
- upgrade - FD / CD	195/199
FTP: PC/TCP for Win	285
FTP: PC/TCP w. On-Net for Win	345
Globalink Assistant (language translation)	
- French / German / Italian / Spanish	46 each
Harvard Graphics 3.0 for Win w. Impact	275
- upgrade	95
Helix: Multimedia Cloaking	32
Helix: Netroom 3.0 - 1 / 4 / 10-user	59/119/255
Hijaak for Windows '95	**(47)*
Hijaak Graphics 3.0 for Win	89
Home Alone 2	**(19)*
HTML Template Master - Win / Mac (CD)	29.95 each
Hyper Access for OS/2	99
Hyper Access for Win'95	49
Internet Phone (by VocalTec)	57
Jetform Filler 4.1 + Companion + Forms	**(89)*
Kai's Power Tools 2.0 for Win	115
Kid CAD - FD / CD	*(24)/36
Laplink V for Dos	105
Laplink 6.0 for Win	129
- upgrade	85
Mac-in-Dos for Win	89
Macromedia Director 4.0 for Win	825
Macromedia Freehand 5.0 for Win	375
Managing Your Money for Win	33.95
Math CAD 6.0 for Win / 6.0 Plus	105/275
McAfee: Virus Scan 2.2	42
- Virus Scan for Win / for Win'95	*42/45*
Medical House Call (Applied Medical)	55
Miracle Piano Teaching Software for Win	58
Mosaic in a Box	**(5)*
Music Mentor 2.0 (by Midisoft)	44
Netscape Navigator for Win (WWW)	35
- for Win'95 (32 bit)	36
Novell Products Help Desk - CD	29.95
One Write Plus Accounting & Payroll 5.0	59
Passport Encore 3.0	365
Peach Tree Accounting 3.0 for Win - FD/ CD	115/119
Peach Tree Accounting 8.0 Complete	185
- Multi-user	279
Pocahontas Screen Saver (Disney)	19.95
Power Search (file manager)	*(25)39
Power Translator Professional for Win	379
Procomm Plus 2.1 for Dos / Win.	89/126
QA Plus v4.8 for Dos	59
QA Plus v6.0 for Win	59
Quark X Press 3.3 for Win	599
Qualitas 386 Max 7.0	**(59)*
Ram Doubler for Win	55
Remove-It for Win & Dos	*(19.99)35
Sidekick '95 for Win	48
Sim Farm	19.95
SpinRite 3.1	79
Stacker 4.0	95
- upgrade	55
System Commander (multi OS on PC)	65
Tie Fighter (game)	**(35)*
Turbo CAD 2.0 for Win	75
Uninstaller 3.0 for Win (microhelp)	39
- for Network 2.0	**(75)*
View Office Power Suite (6 scan programs)	89
Virus Trap Adapter (identify & prevent virus)	65
Virus Trap Adpater + Virus Scan s/w	95
Visio 4.0 for Win'95 & Win	135
Visio Technical 3.0 / 4.0	215/265
Vision Time (video conferencing)	44.95
Visual : Virtual Reality	175
Visual : Simply 3D	39
Watcom C++ 16/32 bit v.10 / v.10.5	189/249
Wave 2.0 for Win (by Turtle Beach)	69
Win Check-It 2.0	46
Windows '95 Advisor	**(25)*
WinGuard Plus+ (data security Win & Dos)	39
Winsleuth Gold Plus	59
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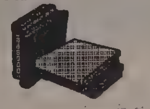

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Home Medical Advisor Prof.	49
How Your Body Works	*(26)
Kathy Smith : Fat Burning Program	17
Mayo Clinic : Family Health '96	41
Mayo Clinic : Health Book MPC / MAC	15/19
Mayo Clinic : Pharmacist oem / reg	*(9.95)/39
Mayo Clinic : Sports & Health Fitness	14
Mayo Clinic : The Total Heart oem / reg	14/25
Mayo Clinic Encyclopedia (4 titles)	39
Meidcal Dictionary	*(12)
Medical Video MPC	19
Mosby's Medical Encyclopedia oem / reg	12/16
Nine Months Miracle w. mouse pad WIN	35
Protect Your Family WIN & DOS	14
Symptons, Illness & Surgery	*(13)

HISTORY

American History Explorer	32
History of Music the Collection (4CD)	44
History of Painting	15
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History of U.S. Space Program	17
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Complete House WIN	15
Expert : Family Album	14
Expert : Home Designer 3D Win3.1 & Win'95	14
Family Tree Maker Deluxe WIN	58
Gardening Multimedia Handbook WIN	13
Gazebo Gardens	36
Home Improvement 1-2-3 MPC	18
Home Repair Encyclopedia WIN	27
Home Safe? (childproof guide)	12
Key Home Gardener oem / reg	*(9.95)/16
Land Designer WIN	39.95
Parenting	17
What Would You Do At Home?	27

INTERNET

All Star Applications Win'95	16
Atlantis Internet	17
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Internet Edge PC & MAC	12
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Internet Plus (4CD)	43
Internt Power Web PC & MAC	22
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World Wide Web Directory	26

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Japanese Partner 4.0 for Win'95 - 3.5" FD	255
Key Translator (English - Spanish) WIN	25
Languages Around the World	15
Languages of the World WIN	15
Learn to Speak English PC, MAC oem / reg	32/55
Learn to Speak French v4.0 PC, MAC	89
Learn to Speak Japanese MAC	55
Learn to Speak Spanish v4.0 PC, MAC	89
Playing with Language MPC	17 each
Power Japanese 2.0 WIN	139
Power Translator Deluxe (by Globalink)	115 each
Pronounciation Tutor v3.0	36 each
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Info Magic : Linux Tool Box 5CD	25
Info Magic : Moo-TIFF	89.99
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Linux Bible by Yggdrasil (book + CD)	28
Linux : Plug & Play by Yggdrasil	27
Linux Run Time	*(9.95)
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Red Head 2.1 4CD + book	29.95
Slackware 3.0 (by Walnut Creek)	18

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Slater & Charlie Go Camping	18
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586-120MHz w/Intel CPU & fan	450
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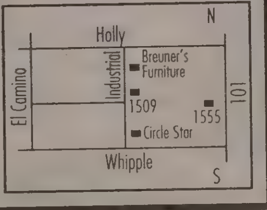

Web Page Listings *continued from page 121*

com/ World's largest discount music video and CD store with over 100,000 titles. [Exp. #150.]

CIO Help Desk *http://www.entex-is.com/* ENTEX Information Services' ($2B sales) information-packed site focusing on the needs of the CIO and MIS Manager. This sight has been highlighted in *PC Week, Infoworld, Computerworld*, and *CIO Magazine*. [Exp. #148.]

Corporate Creations *http://www.corpcreations.com/cc/* Provides incorporation and trademark registration services for entrepreneurs, attorneys, and accountants in the US and offshore. [Exp. #150.]

Decibel Instruments, Inc. *http://www.decibel.com/* Developer and manufacturer of ultra-quiet PCs for improved acoustic measurements and for eliminating noise fatigue caused by daily exposure to noisy PCs. [Exp. #149.]

Federal Building Company *http://www.federalbuilding.com/* A design/build residential remodeling firm founded in Oakland in 1925. [Exp. #148.]

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FeNiX *http://linex.com/~fenix/* FeNiX business communications: promotes clients' goods and services in all media, from print to video to Web sites. [Exp. #149.]

The Front Window *http://www.joes.com/frontwin/* Quality unique gifts and collectibles, available to order online. [Exp. #148.]

Gone To The Dogs *http://www.calypso.com/g2tdogs/* Dog training service; training articles posted often; training products available online; chat available soon. [Exp. #148.]

Good News Travels Fast *http://ultimate.org/87/* Co-Op advertising starts at $3 per month. Put your home business on the Web. [Exp. #150.]

Grant Tracker *http://www.rahul.net/kendric/* Keep the budgets of your grants under control with Grant Tracker. [Exp. #150.]

Handmade African Fashion *http://ally.ios.com/~nogomo19/* Authentic Ashanti Kente cloth stoles and fashion accessories. [Exp. #150.]

Health Goldmine *http://ultimate.org/87a/* News in Health Supplements from Life Plus. [Exp. #150.]

Info-Source 1 *http://infosource1.com/* When you need to uncover pertinent information about a person or business, Info-Source 1 has the solution. [Exp. #149.]

International Export Connections *http://www.teleport.com/~iexportc/* Export your products and locate international distributors. Use our library to get insights into the export market. [Exp. #148.]

KAAM Clearance Connection *http://www.kamconnect.com/* Your wholesale shopping connection. Join our mail list for hot buys. Fund raising program available. [Exp. #149.]

Med X Change *http://www.gate.net/~medxxx/* Offers medical equipment by hundreds of medical equipment dealers. Look for our hot links in the Hospital Web, Hospital NET, and the Victoria Web. [Exp. #149.]

Opamp Labs, Inc. *http://opamplabs.com/* Mfg. of amplifiers, audio, video, industrial, network-feed boxes, switches, transformers, oscillators, and power supplies. [Exp. #148.]

PC Crisis Line *http://www.netbox.com/pccrisis* Telephone support services for personal computer users. Dump the manual, talk to a real person. [Exp. #148.]

Proto Systems *http://www.greatinfo.com/proto/* An interesting mini-mall featuring a self-help bookstore, an electronic Medical Billing service, a computer store, and a credit card store. [Exp. #148.]

Royal-T Cleaners—Fountain Valley *http://www.primenet.com/~proclaim/royalt.htm* We clean and beautifully press your doll and vintage clothing. Acid-free tissue available. [Exp. #148.]

Schlage Lock Company *http://www.schlagelock.com/schlage/* Featuring everything from home security tips to a comprehensive history of locks. [Exp. #148.]

Shelter Systems *http://www.shelter-systems.com/* Portable Geodesic Dome Shelters and Instant Greenhouses. Up in thirty minutes. Many innovative designs. [Exp. #150.]

Thomas Musical Instruments *http://www.cuenet.com/tmi* Complete brass and wind instrument services. New, used, expert repair, rentals, and lessons. [Exp. #148.]

Tropical Treasures *http://www.pete.com/treasures* Traditional handicrafts from the Kapingamarangan craftsmen in Porakiet village on Pohnpei Island are available on the World Wide Web from Tropical Treasures. [Exp. #148.]

Tubz *http://www.opendoor.com/Tubz/TubzHmPage.html* The largest selection of jetted and non-jetted bathtubs on the West Coast. [Exp. #149.]

Western Electronics *http://www.westes.com/* Interested in Amateur Radio? We have what you need from call signs to an online swap meet. [Exp. #150.]

The World Of Robert Raikes Collectibles *http://www.UrsaMajor.com/menu.htm* Color photos and interactive text describing the Robert Raikes Collectibles, teddy bears, and other gifts. [Exp. #148.]

Zap Gotcha Knife Speed Holster *http://www.zapgotcha.com/* Knife Belt—world's fastest, opens instantly. Survival, weapons, hunting, camping, fishing, hiking, guns, sports, gifts. [Exp. #149.]

EMPLOYMENT/ EDUCATION

Actors Online *http://www.actorsonline.com/* Well-designed, professional actor/actress directory for casting people to view information about career actors. [Exp. #150.]

Bay Area Gurdjieff Work Circles *http://users.lanminds.com/~tgr/* Groups that study the Fourth Way teachings of Gurdjieff/Ouspensky. Meeting dates and times listed. [Exp. #148.]

Browning Academy Bob-Cats *http://www.vpp.com/browning/index.html* Using "mentor relationships," The Browning Academy offers a nationally accredited individual program where students work at their own pace and maximize the learning process. [Exp. #149.]

Favela! *http://www.favela.org* Favela! is a modern agora—an interactive learning tool, a means of dissemination of censured information, a spectacle for the eye working with the mind. [Exp. #148.]

International Employee Exchange *http://www.intlex.com/* NPO facilitating short-term work and cultural exchanges for employees of business, organizations, and government. [Exp. #150.]

Learning Tree International *http://www.learningtree.com/* Learning Tree International's guide to its information technology courses—NetWare, Microsoft, LANs, Programming, and more. [Exp. #148.]

Palo Alto Montessori School *http://www.slip.net/~jamila/Pams/* Preschool and child care facility established to develop the child to his/her full potential. [Exp. #148.]

RESULTS Recruiting *http:// www.resultsr.com/* Recruiting company (headhunters) specializing in employer-paid searches and placements for EDA and related industries. [Exp. #148.]

StudentCenter *http://www.StudentCenter.com/* A free online magazine and research tool for the post-graduate job search. [Exp. #150.]

System Partners' Contract Opportunities *http://www.syspart.com/* A listing of challenging contract consulting opportunities in the Bay Area and New England. [Exp. #149.]

Tech Search Jobsight *http://www.jobsight.com/* Jobsight features hundreds of searchable Bay Area jobs with the hottest companies, cool graphics, and an easy online application center. [Exp. #150.]

West Coast Manufacturing *http://www.gumballs.com/vending/* This site is geared toward individuals and businesses that want to earn extra income with minimal investment and little effort. [Exp. #148.]

ORGANIZATIONS/ PUBLICATIONS

American Cancer Society *http://www.ca.cancer.org/* The American Cancer Society will debut the Web site launch with a new tobacco control campaign, the "Great American Smoke-Screen," aimed at young people ages 9-15. [Exp. #148.]

American Civil War Association *http://199.88.68.204/acwa* Civil War reenacting organization in California. Battles, living history and display of life during the 1860s. [Exp. #148.]

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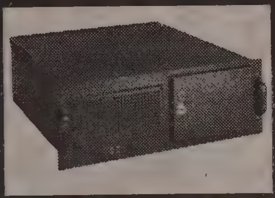

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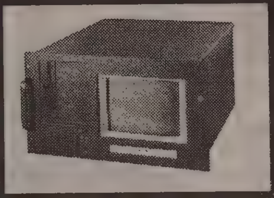

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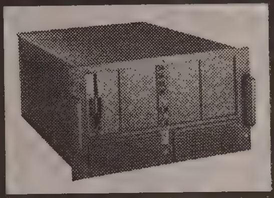

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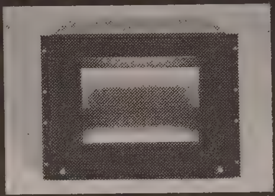

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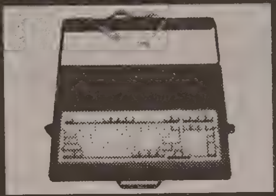

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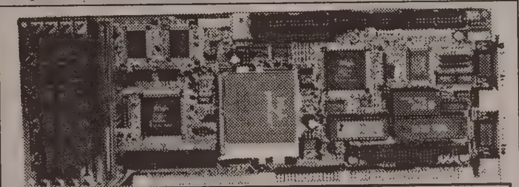

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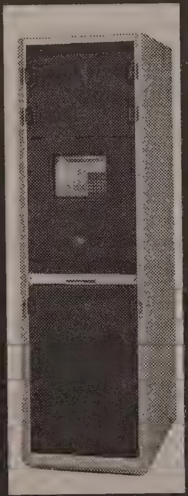

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Online Guide

Web Page Listings *continued...*

Arachnoid Writers *http://www.vena.com/arachnoid/* Authors and writers assemble to become booksellers for their own works. [Exp. #149.]

Association For The Electrically And VDT Injured *http://www.isy.liu.se/~tegen/febost.html* Information for persons who suffer from environmental illness related to exposure of electromagnetic fields. [Exp. #150.]

Bay Area Association Of Entrepreneurial Software Engineers *http://www.ipser.com/baaese/* An association of computer software professionals who share an active interest in computer software business ventures. [Exp. #150.]

Bay Area Volunteer Information Center *http://www.meer.net/users/taylor/* Lists hundreds of volunteer opportunities with San Francisco Bay Area nonprofit organizations. [Exp. #148.]

California Association of Residential Care Homes *http://www.hooked.net/users/rallap/* Santa Clara County Chapter operates a free referral line to refer elderly residents who can't live alone but are not ready for a nursing home. [Exp. #148.]

CaliforniaNet Japan *http://www.meshnet.or.jp/CalNet/* A place to provide information about California and US to a Japanese audience—both in Japan and living in the US—using their native language. [Exp. #150.]

Catholic Charities Web Pages *http://ccsj.org/* Enhancing the quality of life for all members of the community, especially the poor. [Exp. #149.]

Center For Communication Programs (CCP) *http://www.charm.net/~ccp/* Project of Johns Hopkins University School of Public Health. Publisher of "Population Reports" and producer of POPLINE bibliographic database. [Exp. #148.]

Center For Creative Growth *http://www.geopages.com/SunsetStrip/1284/* Providing counseling and education for growth and recovery. Therapists trained by the John Bradshaw Center in the Bay area. [Exp. #148.]

Cigar World *http://Cigarworld.com/* Entertaining commentary, casual exchanges, and cigar news—an online complement to a good smoke. [Exp. #148.]

The Coalition For Human Dignity Information Center *http://www.halcyon.com/burghart/chd.html* Dedicated to strengthening democracy and defending human rights and increasing the ability of communities to effectively respond to the threat of organized racism, anti-Semitism, homophobia, and sexism. [Exp. #150.]

Community United Against Violence (CUAV) *http://www.xq.com/cuav/index.html* Nonprofit serving survivors of anti-gay/lesbian/bisexual/transgender hate motivated violence and same-sex domestic violence. Prevention and counseling. [Exp. #149.]

Croatian Mother's Web Site *http://www.unm.edu/~vuksan/mario/appeal.html* [Exp. #148.]

Cub Scout Pack 813 *http://www.ccnet.com/~sparks/* A resource link for Cub Scout requirements. Also Pack 813 awards, committee members, and pack plans. [Exp. #148.]

DEC User Group *http://www.decus.org/* National DEC User Group. [Exp. #148.]

DKA Sexual Assault And Child Abuse Information *http://www.northcoast.com/~dka* Balanced information and opinions about physical, sexual abuse, child neglect, and sexual assault supported by research. [Exp. #150.]

The electronic Gourmet Guide. *http://www.deltanet.com/2way/egg* The *eGG* is the Internet's first full-color food magazine featuring interviews, articles, recipes, columns, news, and links. [Exp. #148.]

Enchanted E-Books *http://www.e-books.com/* We sell electronic books, classics and contemporary original works, in Windows Help Text format. We also provide publishing services for writers and other people. [Exp. #148.]

Guerrilla Girls Headquarters *http://www.voyager-co.com/gg* This site serves as both an archive of their past attacks and a homebase for new criticisms of the art establishment and the emerging realm of interactive media and communication. [Exp. #148.]

Holistic Dimension *http://www.deltanet.com/users/angelh/INDEX01.htm* A new online magazine that provides an unbiased, uncensored view of today's affairs. [Exp. #148.]

Intellectual Property Creators *http://www.best.com/~ipc/* An organization of seasoned inventors interested in patent enforcement and public policy issues. Fifty-page Web site on patent and other inventor issues. [Exp. #148.]

Irish Network Of Northern California *http://reality.sgi.com/csp/IrishNet/* For those interested in all things Irish; business, social, cultural events in the Bay Area. [Exp. #148.]

Islam And Islamic Books *http://users.aol.com/hineaf/index.htm* The Islamic Center of Sacramento's WWW page offers information on Islam and Muslims. [Exp. #149.]

!jimbo.Land! *http://dnai.com/jimboland/* Center for lesbian and gay culture and community. [Exp. #148.]

Lawrence Livermore National Laboratory Test Site *http://www.llnl.gov/remoteTEST* The new home page for one of the nation's premier science facilities is packed with digital videos and photos to provide an eye-opening excursion into the sometimes dramatic world of scientific experimentation. [Exp. #148.]

Make A Wish Foundation *http://www.wish.org/* Helping terminally ill children live a dream. You can help, find out how. [Exp. #148.]

The Medical Marketing Association *http://www.mmanet.org/* MMA is the leading organization providing personal, professional, and educational growth opportunities for people interested in the marketing of medical products and services. [Exp. #148.]

N.A.A.F.E.T.E.E. *http://www.ijs.com/naafetee/* North American Association for Exports to Eastern Europe is an association of exporters and importers to/from Eastern Europe. [Exp. #148.]

National Center For Employee Ownership *http://www.nceo.org/* Information about employee stock ownership plans (ESOPs) and other forms of employee ownership. [Exp. #150.]

The New Reality *http://www.globaldrum.com/sopdu* This site introduces a whole new reality on spirituality. The New Reality is a nonprofit corporation organized to distribute message of freedom to all who can hear. [Exp. #148.]

Paper Publishing Company *http://www.papermag.com/* A virtual Downtown infused with the PAPER sensibility that has revolutionized pop culture reporting in print. [Exp. #148.]

PC User's Group Of The Redwoods, Santa Rosa, CA *http://www.sonic.net/pcugr/* Membership information, announcements, calendar of events, SIGs, other user groups in Northern CA and the world. [Exp. #148.]

PRAXIS *http://caster.ssw.upenn.edu/~restes/praxis.html* PRAXIS consists of both original documents and pointers to resources related to social and economic development. [Exp. #150.]

The Probe *http://www.theprobe.com/* Business to business network publication. Great offers on products and services. [Exp. #148.]

San Francisco SPCA *http://www.sfspca.org/* Inspect pictures and descriptions of cats and dogs currently available for adoption. [Exp. #148.]

San Jose Baha'i Community *http://www.ccnet.com/~nep/bahai/sjca/* Local and international information on the Baha'i faith. Searchable Baha'i Holy texts. [Exp. #148.]

San Jose—The Capital Of Silicon Valley *http://www.best.com/~mentorms/sanjose.html* A hierarchical index and directory to over 3060 Web sites about San Jose, California, Silicon Valley, and the San Francisco Bay Area. [Exp. #149.]

Scholarship Select *http://www.coolware.com/bullseye/* Documents eighty thousand scholarships on Windows-based CD-ROM. [Exp. #148.]

Sequoia High School Alumni Association Online *http://www.belmont.gov/orgs/alumni/shsaa.html* Alumni information for three SF Peninsula high schools: Sequoia, San Carlos, and Ravenswood. [Exp. #148.]

SMUG (Stanford/Palo Alto Macintosh User Group) *http://www.mediacity.com/smug/smug.html* Information on meeting times, location, and events. [Exp. #150.]

Sources *http://www.dso.com/sources/* *Sources* is an e-journal for the intelligence community—espionage, hacking, counterespionage, spies, international banking. [Exp. #150.]

Southeastern Information Depot *http://www.sid.net* A nonprofit corp. SID is a directory that provides links to over 3500 Southeastern Web sites. [Exp. #150.]

Stanford Asian American Activities Center *http://www-leland.stanford.edu/group/a3c* A resource for anybody interested in Asian American topics. [Exp. #148.]

Stanford/Palo Alto Users Group For PC *http://www.mediacity.com/~spaug/* Information on meeting times, location, and events. [Exp. #150.]

Teen Help *http://www.vpp.com/teenhelp/* Teen Help has resources or can refer parents to resources such as: support groups, parent and teen retreats, short-term crisis centers, treatment programs, and more. [Exp. #149.]

Telecommuting, Teleworking, And Alternative Officing *http://www.gilgordon.com* Global resource page presents latest trends, programs and research related to the flexible workplace. [Exp. #149.]

Tocqueville Connection *http://www.AdeTocqueville.com/* A free, weekly online magazine. Indispensable reading for anyone interested in France and the new Europe it is helping to build. [Exp. #150.]

Triumph Prophetic Ministries *http://www.register.com/triumph/* Features a free bi-monthly magazine and Christian articles and tapes. Broadcast schedules

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[illegible] **Bay**: Hayward, Union City, Pleasanton, Castro Valley, San Lorenzo, Dublin, Oakland and Berkeley

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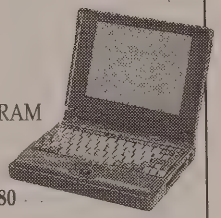

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486DX4-100 IBM	140
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AMD 586-133	190
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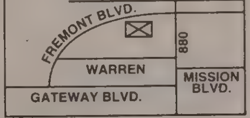

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Web Page Listings *continued...*

also listed. [Exp. #148.]

Vegan Action *http://www.vegan.org/* Nonprofit educational organization enhancing public awareness about the many benefits of a vegan lifestyle. Info, lists, health links, and more. [Exp. #149.]

VirtualGuide *http://www.virtualguide.com/* Hot links related to health, education, art, business, and fun. Great jumping off place. [Exp. #148.]

WebCube.com *http://www.webcube.com/* Designed to provide independent publishers and small presses exposure for their work on the Internet at a very reasonable cost. It currently has over 350 publishers online. [Exp. #150.]

Windows OnLine *http://www.cris.com/wol/* Home of Windows OnLine (BBS), which publishes the *WinOnLine Review* (online magazine)—commercial and shareware reviews. [Exp. #148.]

ODDS & ENDS

555-1212.com *http://www.555-1212.com/* Pick an area code, then look it up. 800, 900, Global directories, too. [Exp. #148.]

A2ZBIZ Com *http://www.a2zbiz.com/~robyn10* Products and services offered, transplant information, Italian Alps skiing resort, links for searching other pages. [Exp. #149.]

Berkeley's People's Park *http://www.dnai.com/~hi_there/people's_park.html* An experiment in electronic democracy, this Web site lets you read about UC Berkeley plans for the Park and send email to City Council members. You can even submit a pledge to help buy People's Park from the University. [Exp. #149.]

Cichlid Research Home Page *http://garnet.berkeley.edu:2727* Information on the fish family Cichlidae, for both hobbyists and scientists. [Exp. #149.]

Cincinnati Zoo And Botanical Garden *http://www.cincyzoo.org* Provides teachers and students with information on conservation issues and lesson material designed to foster science education. [Exp. #150.]

Clinton Budget Proposal For 1997 *http://www.goc.gov/BudgetFY97/index.html* The Internet site offers the same budget information as the printed version, available from the Government Printing Office for $1.75. Updates as supplemental data becomes available. [Exp. #150.]

CyberKorea *http://165.113.175.2* Korean Web directory and information, short Korean lessons, shopping center, ads, and announcements. [Exp. #148.]

Damaged Cybernetics *http://www.futureone.com/~damaged/* Info on the SNES, Sony Playstation, and other gray area information such as defeating Microsoft's CD Key. [Exp. #150.]

Divorce Helpline *http://www.divorcehelp.com/* Tools to keep you out of court and out of conflict: articles, advice, books, worksheets, and links. [Exp. #150.]

The Gasman *http://ourworld.compuserve.com/homepages/GASMAN* Everything you wanted to know about compressed gases—facts, figures, and usages for both yesterday and today. [Exp. #149.]

Good Doin's Holding Company *http://www.iac.co.jp/~gooddoin/* Provides information and services to help parents do a good job of self-care and child rearing. [Exp. #148.]

Hungarian Milecentennary Celebration *http://exo.com/~fredh/honf.htm* 1100 years of statehood and celebration of the times, history, culture, and anthropology of Hungary. Also links to tourist information and related programs. [Exp. #148.]

Impotence Home Page *http://www.impotent.com/* Introduced by Pharmacia and Upjohn, Inc., this site is dedicated to raising awareness and understanding about male impotence. [Exp. #149.]

Mr. Rabin Memorial Book *http://www.netking.com/* [Exp. #148.]

Senator Barbara Boxer Home Page *http://www.senate.gov/~boxer/* Senator Boxer can be reached at *Senator@boxer.senate.gov* . Children can write her at *Kids@boxer.senate.gov* . [Exp. #150.]

Shtetl *http://sunsite.unc.edu/yiddish/shtetl.html* An electronic multimedia collection of Yiddish texts, archives, bibliographies, artworks, songs, and other materials. [Exp. #148.]

Solutions *http://www.netvoyage.net/~daveq/* Natural Recovery from multiple sclerosis, cancer, AIDS. Positive news. Nonprofits listed. [Exp. #150.]

UCLA Dept. Of Radiation Oncology *http://www.radonc.ucla.edu/rowww/rohome.html* An important resource for patients who may need treatment with radiation. It contains a list of common patient questions as well as ongoing clinical protocols. [Exp. #150.]

Who's Who Online *http://www.whoswho-online.com/* Currently accepting online nomination of others as well as self nominations. [Exp. #150.]

PERSONAL HOME PAGES

Bali Travel *http://www.ccnet.com/!briscoe/* If you are interested in travel to Bali or music by the Cranberries, check this page out. [Exp. #149.]

Belligerence WEB Page *http://www.directnet.com/~fredm/planet.html* The Belligerence Connection. Graphic art, show times, and information. Download Belligerence sound clips. [Exp. #148.]

Bill Flinn's Home Page *http://users.aol.com/Gonzo13038* An ever-changing assortment of links to human resources research, aviation, and cool Web pages. [Exp. #148.]

Changes *http://www.ice-nine.com/changes/* Eclectic, evolutionary spirit: hints of the Height Ashbury, psychedelic, and unusually beautiful. [Exp. #149.]

Coco's Place *http://www.geocities.com/Broadway/1974/* Francisco Castro's Personal Page. Links to different broadway musicals, shareware file servers, virtual museums. [Exp. #150.]

Colin's Home Page *http://www.hooked.net/users/spud/colin.htm* Colin's little piece of the Web. Lots of cool links to cool places. [Exp. #149.]

Crunchman *http://www.well.com/user/crunch/* Home page for John Draper, includes information on Web authoring services and lots more. [Exp. #148.]

Dan Kegel's ISDN Page *http://www.alumni.caltech.edu/~dank/isdn* Your first stop for ISDN info, whether you're a novice or expert. [Exp. #148.]

Dick Thompson Home Page *http://www.av. qnet.com/~rkt* A good logical design with great links and info about my computer club. [Exp. #150.]

Dub Egbert *http://ourworld.compuserve/homepages/dub_egbert* Purple Smoke Gang BBQ—slow cookin' at its best. Recipes/pictures from the KC Royal. Other BBQ sites. [Exp. #150.]

Eugene's Specials *http://www.primenet.com/~efrenkel/index.html* Free software links, Russian WWW links, weather, ski reports, and more. [Exp. #150.]

Follow Your Heart *http://www.earthlink.net/~ivanlove* Seeking love and spiritual peace? Check out the writings and philosophy of Ivan Hoffman. [Exp. #148.]

Gary Thomas Home Page *http://www.hotcity.com/~gthomas* A large collection of links for Windows 95 shareware and tips, fun stuff, Internet information, etc. [Exp. #149.]

Geek Girl *http://www.geekgirl.com.au/fenix/fenix.html* [Exp. #149.]

Greg Bulmash's Humor Page *http://www.earthlink.net/~gregoire/* A bi-weekly humor magazine/home page with original work from Greg and others. [Exp. #148.]

Indojoe's Puff Center *http://www.westworld.com/~indojoe/indojoe.html* Links to games, hacking, phreaking, bombs, and related sites. Check out the "darker" side of cyberspace. [Exp. #148.]

Mark Butler's End Node Of Fun *http://www.geopages.com/SiliconValley/1133/* No links, just information. Doc Savage, Conan The Barbarian, comics, books, games, and more! [Exp. #148.]

Mimi's Cyber Kitchen *http://www.smartlink.net/~hiller/food/* Over 1000 food-related links and my personal collection of recipes, all in a highly organized format. [Exp. #149.]

Mr. Roy's World *http://ourworld.compuserve.com/homepages/mr_roy* Includes ten major Internet search indexes, a guide to cool Web pages, and political topics. [Exp. #149.]

Nick Spano *http://www.earthlink.net/~firsttake/nick.html* Model, actor Nick Spano featured in his own Web page. [Exp. #150.]

No Nerds Allowed *http://ourworld.compuserve.com/homepages/harold/* Personal home page for fun and entertainment. Search sites, Vietnam Vet links, and more. [Exp. #150.]

Ovi's World Of The Bizarre *http://netmar.com/users/ovigher/ovi.htm* Absolutely shocking, but unquestionably true short reports. A must see for all Web surfers. [Exp. #148.]

Poirier's Universal Links *http://www.seas.ucla.edu/~poirier/bookmark/bookmark.html* Over five hundred links to the most useful stuff on the Web to a UCLA student. [Exp. #149.]

Randy's World *http://www.mvhs.fuhsd.org/~rksar/* Provides users with great links around the globe, Web home page creation help, information about me, and upcoming projects. [Exp. #150.]

Sheryl Moulton's Resume *http://redshift.com/~data/* Resume of recent college graduate seeking entry-level position or internship in computer industry. [Exp. #148.]

Soprano Connections *http://www.soprano.com/* Tired of junk links? Try our more than one thousand smart links. [Exp. #148.]

Steve & Hilma's Web Page *http://www.netvoyage.net/~netsteve/stvhl9hm.html* See our Web Page if you are going to travel, plan a vacation, or invest in real estate. [Exp. #150.]

Steve's Hot Stuff *http://www.sonic.net/stephen/* WWW exploring, reference links, freeware/shareware guide, computers in magazines/ezines/radio/TV, User Groups. [Exp. #148.]

Suzanne Forsters' Home Page *http://www.deltanet.com/users/forster/* Provides a listing of women's contemporary fiction novels, specializing in romantic adventure. [Exp. #148.]

Tinnitus Science *http://members.aol.com/neurosense/tinnitus.html* Tinnitus science, ringing ears, hearing loss, hyperacusis. Synopsis of new scientific information for both sufferers and doctors: new hope for a cure. [Exp. #150.]

VinceWorld *http://www.vinceworld.com/* Euphoria? Ephemera? Get your bizarre, whimsical, undefinable interactive animation here! [Exp. #150.]

Virtual NEMESIS *http://www.geopages.com/athens/2116/* Links to climbing, movie, sci-fi, cartoon, chat lines, and other great sites. [Exp. #148.]

Walt Perko's Home Page *http://www.dnai.com/~wperko* Home pages for the Home Multimedia Hobbyist BBS, the Digital Data Archives, the San Francisco, Sidewalk Astronomers, and more. [Exp. #149.]

WORLDVIEW-BBS.COM *http://worldview-bbs.com/* Steve Forbes is right, "the Christian Coalition only represents its members, not all Christians." [Exp. #150.]

Zpub Sites *http://www.zpub.com* A collection of zines on topics ranging from the San Francisco Cacophony Society to Charity, from the Burning Man archives to Russian Trade Connections. [Exp. #148.]

ENTERTAINMENT/ LEISURE

Adventures & Entertainment, Inc. *http://www.adventur.com/* A resource

MIC SUPER 486 SYSTEMS

AIR 486DX4 PCI Mother Board w/256K
8MB 72 Pin Simm (Expandable to 128MB)
Teac 1.44MB Floppy
630MB Western Digital Hard Drive (10ms)
PCI EIDE w/ Fast I/O 16550 UART
PCI 64 Bit Graphic Card w/1MB
Shamrock 14" Digital 1024x768 .28 NI
Toshiba or Panasonic X4 Speed CD ROM
Media Vision Sound Card 16Bit
J-S Jazz Stereo Hi-Fi Speakers
Mini Green Tower Case w/230W PS
Mitsumi 101 Enhanced Keyboard
MS Mouse Compatible w/Pad
DOS 6.22 and WINDOWS 3.11
Microsoft CD Package :
MS Encarta, Dangerous Creature ,Work,
MS Money, MS Entertainment Pack etc ...

DX2/66	**$1,055**	**DX4/100**	**$1,085**
DX2/80	**$1,065**	**DX4/120**	**$1,105**

WINDOWS 95 (CD Full Version)	Add $55
112W High Performance Speaker	Add $85
Diamond Stealth64 Video 2001 2MB	Add $119
Sound Blaster AWE32	Add $105
Colorado 350MB Tape Backup	Add $110
28.8K Fax/Modem V.34.	Add $125

BEST NOTEBOOK PRICES IN TOWN

IBM ThinkPad 755CD Pentium75Mhz, 8MB, 1.2GB HD, 1.44FD, 10.4"TFT VGA, CD ROM,Dos/Windows & OS/2, 3Years warranty	$5,325
IBM ThinkPad 760CD Pentium90Mhz, 8MB, 1.2GB HD, 1.44FD, 12.1"TFT VGA, CD ROM, Windows 95, 3Years warranty	$7,289
TOSHIBA T2150CDS 486DX4/75Mhz, 4MB Ram, 520MB HD, 10.4"DSTN/ 1MB SVGA, Accu mouse	$2,565
TOSHIBA T2110CS 486DX4/75Mhz, 4MB Ram, 330MB HD, 10.4"DSTN/ 1MB SVGA, Accu mouse	$1,725
TOSHIBA Satellite 410CS Pentium90Mhz,8MB,810MB HD, 1.44FD, 11.3"DSTN VGA, 16Bit Sound & Speaker, Win95, 3Years warranty	$3,395
TOSHIBA Satellite 410CDT Pentium90MHz,8MB,810MB HD, 1.44FD, CD ROM, 11.3"TFT VGA,Sound & Speaker Win95, 3Years warranty	$4,395
TOSHIBA Portege 610CT Pentium90Mhz,8MB,720MB HD,CD ROM 9.5"Active, 1MB SVGA, 16Bit Sound card	$3,995
TOSHIBA Tecra 700CS Pentium120Mhz,16MB,330MB HD,1.44FD 1.23GB Removable, 11.3"TFT, Sound card	$5,895
NEC Versa 2000C 486DX4/75Mhz,8MB,350MB HD, 1.44FD, 9.5"TFT VGA,2/II or 1/III PCMCIA,Win95, 14.4K Fax/Modem,Touch Pad	$2,025
NEC Versa 4000C Pentium90Mhz, 8MB, 540MB HD, 1.44FD 10.1"TFTVGA,2/II or 1/III PCMCIA,Win95 14.4K Fax/Modem, 16Bit Sound & Speaker CD ROM, Touch Pad	$4,385
NEC Versa 4000D Pentium75Mhz, 8MB, 540MB HD, 1.44FD 10.4"DSTN VGA, 2/II or 1/III PCMCIA, 16Bit Sound & Speaker, Win95, Touch Pad	$3,095
NEC Versa 4050CD Pentium90Mhz, 8MB, 810MB HD, 1.44FD, 10.4"TFT VGA, 2/II or 1/III PCMCIA, CD ROM, 16Bit Sound & Speaker, Win95, Touch Pad	$4,595
NEC Versa 4050H Pentium90Mhz, 8MB,810MB HD, 1.44FD, 10.4"TFT VGA, 2/II or 1/III PCMCIA, 16Bit Sound & Speaker, Win95,Touch Pad	$4,795
NEC Versa 4080H Pentium120Mhz, 8MB, 1.0GB HD,1.44FD, 10.4"TFT VGA, 2/II or 1/III PCMCIA, 16Bit Sound & Speaker, Win95, Touch Pad	$5,395
HP Omnibook 5000C Pentium75Mhz, 8MB, 540MB HD,1.44FD, 10.4"Active, 16Bit sound & Speaker, Track Ball	$3,295
HP Omnibook 5000CTS Pentium90Mhz, 16MB, 1.0GB HD,1.44FD, 10.4"Active, 16Bit sound & Speaker, Track Ball	$5,745

MIC HIGH PERFORMANCE

Intel Zappa Mother Board w/256K Cache
8MB 72 Pin Simm (Expandable to 128MB)
Teac 1.44MB Floppy
635MB Western Digital or Seagate HD
PCI EIDE w/ Fast I/O 16550 UART
PCI 64 Bit Graphic Card w/1MB
Toshiba or Panasonic X4 Speed CD ROM
Media Vision Sound Card 16Bit
J-S Jazz Stereo Hi-Fi Speakers
Shamrock 14"Digital 1024x768 .28NI
Mini Green Tower Case w/230W PS
Mitsumi 101 Enhanced Keyboard
MS Mouse Compatible w/Pad
CPU Heatsink and Cooling Fan
DOS 6.22 and WIND OWS 3.11
Microsoft CD Package :
MS Encarta, Dangerous Creature ,Work,
MS Money , MS Entertainment Pack etc ...

P5 - 133	**$1,455**	**Nexgen MB**	
P5 - 120	**$1,385**	**P5 - 100**	**$1,255**
P5 - 100	**$1,335**	**P5 - 110**	**$1,275**
P5 - 90	**$1,315**	**P5 - 120**	**$1,325**
P5 - 75	**$1,245**	**P5 - 133**	**$1,385**

850MB/1.2GB	Add $20/$70

VIDEO GRAPHIC CARDS

GENOA	
Phantom 64 VL/PCI W/2MB	$138
ATI	
WinBoost PCI 1MB DRAM Mach64	$116
WinBoost VLB 1MB DRAM Mach64	$120
WinBoost PCI 2MB DRAM Mach64	$156
WinBoost VLB 2MB DRAM Mach64	$157
WinTurbo 64 PCI/VLB 2MB VRAM	$231
WinTurbo 64 PCI/VLB 4MB VRAM	$395
HERCULES	
Stingray VLB/PCI 1MB DRAM	$65
Stingray 64/Video PCI 1MB DRAM	$149
Stingray 64/Video PCI 2MB DRAM	$189
Graph.Terminator64 PCI 2MB DRAM	$198
Graph.Terminator Pro 2MB VRAM	$339
Graph.Terminator Pro 4MB VRAM	$488
DIAMOND	
Stealth64 Video PCI 1MB DRAM	$125
Stealth64 Video VLB 1MB DRAM	$128
Stealth64 Video PCI 2MB DRAM	$165
Stealth64 Video VLB 2MB DRAM	$168
Stealth64 Video PCI 2MB VRAM	$265
Stealth64 Video VLB 2MB VRAM	$269
Stealth64 Video PCI 4MB VRAM	$449
Stealth64 Video VLB 4MB VRAM	$459
MATROX	
Impression Plus 2MB Upgrade	$199
Impression Plus PCI 2MB	$309
Impression Plus 220 PCI 2MB	$399
Millenium PCI 2MB	$305
Millenium PCI 4MB	$449
NUMBER NINE	
FX Vision 330 PCI 1MB DRAM	$114
FX Vision 330 PCI 2MB DRAM	$165
FX Motion 771 PCI 2MB VRAM	$255
FX Motion 771 PCI 4MB VRAM	$399

MOHER BOARD WITHOUT CPU

486DX4 PCI MB 256K EIDE, I/O 16550	$135
486DX4 VLB MB 256K	$108
Intel Zappa MB w/256K	$196
Intel Endeavor MB w/256K Pipe Lined Burst	$246
Intel Atlantis MB w/256K Pipe Lined Burst	$336
Pentium Neptune Dual CPU MB w/256K	$495
Quad CPU Symmetrical MB w/512K	$2,956
*AIR 486MIS MB w/256K (SCSI & IDE)	$145

PRINTERS

HEWLETT PACKARD	
DESKJET 340P	$295
DESKJET 600	$239
DESKJET 660C	$369
DESKJET 850C	$485
DESKJET 1600C/1600C(postScript)	$1,299/$1,895
LASERJET 4PLUS/4M PLUS	$1,389/$1,859
LASERJET 4VPLUS/4MV	$1,849/$2,659
LASERJET 5L-F/5P-P	$489/$849
LASERJET 5MP	$1,029
LASERJET 5si	$2,749
LASERJET 5siMX	$3,679
LASERJET Color	$5,459
BROTHER	
HL630-R/HL645-R	$399/$459
HL660-R/HL660SPSR	$639/$859
WL660-R/HL960-R	$519/$1,049
HL1260-R	$1,249
MFC4000R/MFC4500R	$919/$995
IC-100/IC-150 OCR	$205/$239

MIC TOP PERFORMANCE

Intel Endeavor MB w/256K Pipe Lined Burst
8MB 72 Pin Simm (Expandable to 128MB)
Teac 1.44MB Floppy
850MB Western Digital or Seagate HD
PCI EIDE w/ Fast I/O 16550 UART
Diamond Stealth64Video 2001 1MB w/MPEG
Toshiba or Panasonic X4 Speed CD ROM
Sound Blaster 16Bit VIBRA
112W Stereo High Performance Speakers
Acer 15" 1024x768 .28 NI (3yrs Warranty)
Mid Green Tower Case w/250W PS
Mitsumi 101 Enhanced Keyboard
MS Mouse Compatible w/Pad
CPU Heatsink and Cooling Fan
Choice of WIND 95 or DOS 6.22+WIND 3.11
MS CD Package : Encarta, Dangerous creature,
Money, Entertainment Pack, Work etc ...

P5 - 166	**$2,015**	**P5 - 75**	**$1,505**
P5 - 150	**$1,815**	**Nexgen MB**	
P5 - 133	**$1,715**	**P5 - 100**	**$1,455**
P5 - 120	**$1,645**	**P5 - 110**	**$1,475**
P5 - 100	**$1,595**	**P5 - 120**	**$1,525**
P5 - 90	**$1,575**	**P5 - 133**	**$1,585**

Acer 17" Monitor (3Yrs warranty)	Add $295

HARD DRIVES

FUJITSU	
M1606T/S 1.08GB IDE/SCSI 10ms	$205/$245
CONNER	
1.08GB IDE	$205
1.2GB IDE	$225
1.6GB IDE	$265
MAXTOR	
850MB IDE	$183
1.08GB IDE	$205
1.2GB IDE	$235
1.6GB IDE	$265
QUANTUM	
850MB IDE	$183
850MB SCSI	$195
1.08GB SCSI	$275
2.1 GB SCSI	$659
WESTERN DIGITAL	
635MB IDE	$175
850MB IDE	$185
1.08GB IDE	$215
1.2GB IDE	$235
1.6GB IDE	$275
SEAGATE	
1.05GB FSCSI-2 (ST31230N/W) 10ms	$395/$435
2.14GB FSCSI-2 (ST32550N/W)8.5ms	$885/$945
4.2GB FSCSI-2 (ST15230N/W) 9ms	$995/$1,045
4.29GB FSCSI-2(ST15150N/W)8.5ms	$1,185/$1,215
9.08GB FSCSI-2 (ST410800N/W) 12ms	$2,025

SOUND CARDS / SPEAKERS

SOUND BLASTER PRO VE	$63
SOUND BLASTER 16 PLUG & PLAY IDE	$89
SOUND BLASTER 16 VIBRA IDE-CD	$83
SOUND BLASTER 16 SCSI II	$99
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SOUND BLASTER AWE32 IDE w/ASP	$175
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WIN95 ACTION 16BIT SOUND CARD	$58
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J-S SPEAKER 112W HIFI	$68
J-S SPEAKER 112W ENHANCED	$85
J-S SPEAKER 224W 2 WAYS HIFI	$99
J-S SPEAKER 300W 2 WAYS HIFI	$185
J-S SPEAKER 300W 3 WAYS HIFI	$189
J-S 300W SUB WOOFER SYSTEM	$215
J-S POCKET SPEAKER J-009	$12
SPEAKER MA80 80W 2 WAYS HIFI	$55

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CONNER 420MB INT	$119
CONNER 850MB INT	$183
COLORADO INT 350MB	$119
COLORADO INT T-1000 800MB	$179
COLORADO INT 1.4GB	$225
COLORADO POWER 1GB INT (SCSI)	$588
CD ROM	
SONY X4 SPEED IDE	$98
EPSON X4 SPEED IDE	$98
PANASONIC X4 SPEED	$96
TEAC X4 SPEED IDE	$96
TEAC X6 SPEED IDE	$159
TOSHIBA X4 SPEED IDE	$112
TOSHIBA X4 SPEED T3601B SCSI	$265
TOSHIBA X6 SPEED T3701B SCSI	$312
NEC X4 SPEED 511 SCSI	$215
NEC X6 SPEED 512 SCSI	$315
PIONEER X4 SPEED IDE	$105

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Intel Endeavor MB/256K Pipe Lined Burst
8MB 72 Pin Simm (Expandable to 128MB)
Teac 1.44MB Floppy
1.2GB Western Digital or Quantum
PCI EIDE w/ Fast I/O 16550 UART
Diamond Stealth64Video2001 2MB MPEG
Teac X6 Speed CD ROM
Sound Blaster 16Bit VIBRA
180W Stereo High Performance Speakers
Acer 15" 1024x768 .28 NI (3yrs Warranty)
Mid Green Tower Case w/250W PS
Mitsumi 101 Enhanced Keyboard
MS Mouse compatible w/Pad
CPU Heatsink and Cooling Fan
Choice of WIND 95 or DOS 6.22 +WIND 3.11
MS CD Package : Work, Dangerous creature,
Money, Entertainment Pack, Encarta etc ...

P5 - 166	**$2,095***	**P5 - 75**	**$1,585***
P5 - 150	**$1,895***	**Nexgen MB**	
P5 - 133	**$1,795***	**P5 - 100**	**$1,535**
P5 - 120	**$1,725***	**P5 - 110**	**$1,555**
P5 - 100	**$1,675***	**P5 - 120**	**$1,605**
P5 - 90	**$1,655***	**P5 - 133**	**$1,665**

*Intel Atlantis MB w/256K Pipe Lined	Add $49

MONITORS

NANAO	
F2-15/F2-17	$527/$815
F2-17EX/T2-17TS /T2-17	$923/$977/$1,198
T2-20/F2-21/FX2-21	$1,877/$1,775/$2,765
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15"/17"MAGNASCAN	$328/$648
VIEWSONIC	
15" 15ES/15GS/15GA	$355/$425/$479
17" 17EA/17GA	$626/$739
17" 17GS/17PS	$673/$825
17" 1769DC	$635
17" PT770/V775	$885/$945
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21" 21PS	$1,567
21" PT810	$1,885
SONY	
15" CPD-15SX1	$435
15" CPD-15SF1/CPD-15SF2	$459/$484
17" 17SF2/17SE2	$827/$1,025
20" 20SF2	$1,695
NEC	
15" 15XV+	$465
17" 17XV+	$765
21" XE21/XP21	$1,719/$1,915
SAMSUNG	
15" 15GLE/15GLI	$385/$425
17" 6NE/17GL	$635/$649
17" 17GLI/17GLS	$695/$775
17" 17GLSI	$825
20" 20GLS	$1,255
ACER	
14" AV34T	$216
15" AV55	$299
15" AV56L	$339
17" AV76i	$595
NOKIA	
15" 449E	$423
17" 447L/447X/447X-TCO	$675/$915/$1,085
21" 445X/445X-TCO	$1,855/$1,985

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3C509 ELINK III Coax / 5Pack	$85/$386
3C509 ELINK III TP / 5Pack	$75/$376
3C509 ELINK III Combo / 5Pack	$95/$415
3C509 ELINK III EISA Coax/TP	$218/$219
SMC	
ELITE ULTRA 16 Coax / 6Pack	96/$399
ELITE ULTRA 16 TP / 6Pack	$89/$355
ELITE ULTRA 16 Combo / 6Pack	$99/$445
ELITE ULTRA 32 EISA Combo	$206
ETHEREZ 16 Combo / 6Pack	$79/$465
ETHERPOWER PCI Combo	$155
TIGER HUB 3212TC (12TP+BNC+AUI)	$359
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USROBOTICS Sportster 14.4K Ext	$107
USROBOTICS Sportster 28.8K Int V.34	$177
USROBOTICS Sportster 28.8K Ext V.34	$193
SUPRA Express 14.4K Int	$76
SUPRA Express 28.8K Int	$169
HAYES Accura 14.4K Int / Ext	$83/$98
HAYES Accura 28.8K Int / Ext V.34	$171/$201
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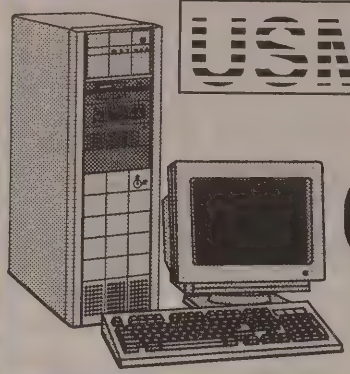

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The High Performance USM ALPHA Series is a PCI Local Bus computer system based on Digital Equipment Corporation's AXP RISC processor, running at 275MHz clock speed. They are designed to met the growing demand of Windows NT - for Computer-Added Design, Computer-Added Manufacturing, 3D Graphics, Animation, Desktop Publishing, and Scientific Applications.

The USM ALPHA Series also features a 128bit data path for external cache and main memory. PCI/ISA expansion slots, and internal high-speed disk storage. Now all of these workstation features are available on a Windows NT Platform, at the cost of a PC.

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USM-Alpha 64-275BS **$3495**	File Server System w/300watt Power Supply, 3 Fans, w/512K Cache, DEC Alpha 21064A-275MHz CPU, NCR PCI SCSIController, 1.44MB Floppy Drive, IDE/IO on Board, PS-2 Keyboard y Cable
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USM-Alpha 64-275S **$5995**	File Server System w/300watt Power Supply, 3 Fans, w/512K Cache, DEC Alpha 21064A-275MHz CPU, 16MB Parity RAM, 2.1GB SCSI-2, 4X SCSI CD ROM, 64bit S3-PCI VGA (2MB DRAM), IDE/IO on Board, 1.44MB Floppy Drive, IDE/IO on Board, 101 Keyboard, PS-2 Mouse, Windows NT Client Pre-installed

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The ServerStart™ Platform integrates:

- Novell NetWare 4.1 (5 to 1000 users), - a 32-bit Network Operating System
- EtherStream PRO/10 for Server & EtherStream PRO/10 for Workstation - 3 media, 16-bit ISA ethernet adapter
- LANScan - a Windows-based network management tool
- NetShield - virus protection for Novell® file servers

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MachServer™ Hardware Platform integrates:

- The best optimized server architecture designs from US design technology, American Megatrends, Intel and ValuStream.

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90MHz	585
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133MHz	775
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US design technologies mach Series Pentium 256K Async Cache System

- 256K Cache
- Intel Pentium® processors, 75MHz-166MHz
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- Deluxe Midtower w/PS
- TEAC 1.44MB FD
- Windows 95 Keybd
- Serial Mouse
- CPU Cooling Fan

75MHz	$525
90MHz	635
100MHz	665
120MHz	745
133MHz	825
150MHz	975
166MHz ...	1225

US design technologies Triton Pipeline Burst mach Series System

- 256K Cache
- Intel Pentium® processors, 75MHz-166MHz
- EIDE, 16550 UART I/O, para. port
- Teac 1.44MB FD
- Deluxe Midtower w/PS
- Windows 95 Keyboard
- Serial Mouse
- CPU Cooling Fan

75MHz	$555
90MHz	665
100MHz	695
120MHz	775
133MHz	855
150MHz ...	1005
166MHz ...	1255

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Soundblaster 16 /ATI Video built in

- 256K Pipeline Burst Cache
- Intel Pentium® processors, 75MHz-166MHz
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- Teac 1.44MB FD
- Deluxe Midtower w/PS
- Windows 95 Keybd
- Serial Mouse
- CPU Cooling Fan

75MHz	$745
90MHz	855
100MHz	885
120MHz	965
133MHz ...	1045
150MHz ...	1195
166MHz ...	1445

intel® Endeavor MB Base System

- 256K Pipeline Burst Cache
- Intel Pentium® processors, 75MHz-166MHz
- EIDE, 16550 UART I/O, 1 parallel port
- Teac 1.44MB FD
- Deluxe Midtower w/PS
- Windows 95 Keybd
- Serial Mouse
- CPU Cooling Fan

75MHz	$645
90MHz	755
100MHz	785
120MHz	865
133MHz	945
150MHz ...	1095
166MHz ...	1345

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Web Page Listings *continued ...*

for the tourist, covering Monterey, Santa Cruz, and Sacramento. [Exp. #150.]

Amigos Contact Service *http://www.kegel.com/amigos* Find a friend or mate near you. Free, safe, convenient way to reach thousands of local people. [Exp. #148.]

Atomic Eye *http://www.atomiceye.com/atomic/* Join the continuing adventures of Scuff & Pineapple throughout the metropolis of Los Angeles. [Exp. #148.]

Axcis Information Network *http://www.axcis.com/* Makers of SportsMaster and TrackMaster. Online handicapping information for football, basketball, and horse racing. [Exp. #148.]

Backlot Movie Sets *http://www.greenheart.com/keni/* Paintings and prints of Hollywood's movie sets by former scenic artist and set painter. [Exp. #148.]

Beatle Link *http://pages.prodigy.com/CA/mervis/beatle.html* A Web site designed to easily access Beatle sites throughout the world. [Exp. #148.]

Bodywise *http://www.bwise.com/bodywise* Bodywise provides insightful news, facts, and data to bodybuilders and fitness enthusiasts. [Exp. #148.]

Cajun/Zydeco Web Resources *http://www.slip.net/~arubinst/index.html* A selected, annotated list of Cajun/Zydeco music, dance, and cultural Web resources, including detailed Bay Area info and calendar of events. [Exp. #148.]

California Shakespeare Festival *http://www.via.net/!csf/* Updated information on next season's productions, including announcements from our new Artistic Director and upcoming auditions. [Exp. #150.]

The Case *http://www.thecase.com/* A fun and challenging mystery Web site designed to encourage users to return week after week. [Exp. #149.]

Cherry Lane Music *http://www.cherrylane.com/* High-quality printed music. Rock, guitar, folk, pop, and country are our specialties. We are leaders in guitar tablature. [Exp. #148.]

Classical CD Scout, Web Edition *http://www.cdscout.com/cdscout/* Lively but sophisticated review of classical recordings—reviews, articles, and features. [Exp. #148.]

Clicket *http://www.clicket.com/clicket* Products from Star Trek, Star Wars costumes and gifts to personalized Christmas Cards and Santa suits. [Exp. #148.]

Cruises *http://www.cruisemed.com/* Cruise info and reservations for travel to Greece, Turkey, Israel, and Egypt. [Exp. #150.]

Cyberpet *http://www.cyberpet.com/* To boldly go where no pet fancier has gone before. Dogs galore! [Exp. #148.]

Digital Restaurant Guide To San Francisco *http://sf.net/lantern/* Every single restaurant in San Francisco with detailed locator maps, review, and info. [Exp. #148.]

Distant Shores *http://www.distantshores.com/* We showcase full-color photos/descriptions of high-end antiques and collectibles. 1-800-274-5968. [Exp. #148.]

Dr Jack's Thing BBS *http://www.drjack.com/* Gateway to one of N. California's hottest BBSes: free samples, great links, Netscape enhanced. [Exp. #150.]

Electric Mercado *http://www.mercado.com/* A bilingual online cultural center and marketplace showcasing Latino lifestyles. This site is modeled after the traditional Latin American mercados with all their richness and color. [Exp. #149.]

Gold Sheet Sports Page *http://www.goldsheet.com/* Provides useful, in-depth, and timely information in the field of sports gambling. [Exp. #148.]

HotPlatters *http://www.earthlink.net/~oversight/HotPlatters.html* Vinyl LP's: R 'n' R, Comedy, Country, Folk, Personalities, R&B, Soundtracks, music-related books, and paper goods. [Exp. #148.]

Innerspace *http://www.primenet.com/~fredfx/* A Web site for Space, an ambient music group. Their first release, *Planting Flowers in the Snow*, is due on CD in April. [Exp. #150.]

Jazz Central Station *http://jazzcentralstation.com/* Devoted to the world of Jazz, JCS, the Global Network for Jazz, serves to link fans, musicians, and the music industry worldwide. [Exp. #150.]

LaMotta Productions *http://members.gnn.com/llamotta/lee.htm* Home page of LA-based voiceover artist, writer, producer, includes downloadable voiceover demo. [Exp. #150.]

London's Burning! The Clash Internet Resource. *http://www.primenet.com/~jendave/clash/clash.htm* This site provides lyrics, guitar tablature, graphics, and much more about the music of The Clash. [Exp. #150.]

Match.Com *http://www.match.com/* Internet matchmaking! Browse photos and personal profiles; email and match by category and location; over 30,000 members worldwide! [Exp. #148.]

Miracle Mile Coin *http://www.masterm.com/mmcoin.html* Information on rare coins and numismatic happenings. [Exp. #148.]

Moss Beach, California *http://www.coastside.net/USERS/gladman/mossbeach.html* Things to see and do along the San Mateo county coastside. [Exp. #148.]

!MuCoMo! *http://www.mucomo.com/* RealAudio interviews and photo scrapbooks of your favorite stars. CD and concert reviews with Ivan. News updated daily. [Exp. #149.]

Nabulae *http://www.nebulus.com/* Nebulous music for nebulous times. [Exp. #148.]

Numismatists Online *http://www.numismatists.com/* Numismatists Online, interactive rare coin auctions on the Web. A proven forum for Internet-based commerce. [Exp. #148.]

Old Strubridge Village *http://www.osv.org/* Catch a glimpse of 19th-century life with 20th-century technology. [Exp. #148.]

Pun Master *http://www.punmaster.com/* [Exp. #148.]

PureArtMarket *http://www.PureArtMkt.com/* Unfiltered entertainment on the Internet. A place where emerging filmmakers, musicians and other artists distribute their work. [Exp. #148.]

The Reader's Corner *http://www.quake.net/~autopen/* Mystery, romance, fantasy. Theme pieces, new releases, classics, humor. Pro-women site. Free email publication too. [Exp. #149.]

Robert Altman Photography *http://www.cea.edu/robert/* Large collection of images and stories from this former chief photographer for Rolling Stone magazine. [Exp. #149.]

San Francisco's Best Of Broadway *http://www.bwaytheatresf.com/* A comprehensive Web site on the Best of Broadway series at San Francisco theatres. Learn more about current and upcoming shows, the theatres, and how to purchase tickets. [Exp. #148.]

ScruTiny Associates *http://www.didi.com/scrutiny/* Explore the surreal, hypnotic world of the groundbreaking "ScruTiny in the Great Round" CD-ROM work of art. [Exp. #149.]

Seven Crown Resorts *http://www.sevencrown.com/* Get information about houseboat vacations on four of the West's most spectacular waterways: Lake Mead, Lake Mohave, Lake Shasta, and the California Delta. [Exp. #148.]

Skeleton Key *http://www.boulevards.com/billboards/ocrbcookies/* A dictionary for deadheads. [Exp. #150.]

Silent Records *http://www.silent.org/* The premier ambient music record label in the US offering an online catalog, soundbites, psychedelic graphics, and hidden surprises. [Exp. #150.]

Southern Oregon Magazine *http://www.so-oregon.com/* A monthly guide focusing on the attractions, people, resources that make Southern Oregon a premier West Coast recreation, vacation, and relocation destination. [Exp. #150.]

Split *http://www.splitnews.com/nomad/* International travel news and features with an irreverent twist. [Exp. #150.]

Third World Traveler *http://www.nbn.com/people/stevetwt* Third World Traveler provides alternative and human rights information to travelers to Third World countries. [Exp. #148.]

TV Net. *http://tvnet.com/* TV chat, forums, and jobs. All available TV Show links. [Exp. #148.]

Tymon's Try-B4-Buy Book Club *http://www.av.qnet.com/~frank/index.html* Free access to Tymon's Tirades. Synopses, original books (250+ pages) on parenting, politics, science fiction, fantasy, programming. [Exp. #148.]

The Unofficial Heckler And Koch USP Home Page *http://www.primenet.com/~tlau/usp/usp.html* Info on the H&K USP pistol and general information of interest to all shooters. [Exp. #148.]

Venice Beach, California *http://www.mediaonline.com/bizads/venicebeach.html* Celebrate Venice's 90th anniversary in this art and fitness community that includes world-famous Muscle Beach. [Exp. #149.]

Vintage Mustang Owners Association *http://www.vntg-mustang.com/* San Jose-based club dedicated to the restoration and preservation of the Ford Mustang automobile. [Exp. #150.]

Vinylware *http://www.Vinylware.com/* The Artist's Music Distribution Alternative. Providing Web access for musicians. [Exp. #148.]

Virtual Vineyards *http://www.virtualvin.com* Presenting a great selection of fine wines and specialty foods you can order and have delivered to your door. [Exp. #148.]

Weddings Online *http://weddings-online.com/* The Internet's largest marketplace of wedding services and information. Over twenty-five categories to choose from. [Exp. #148.]

The Wine Authority *http://www.wineauthority.com/* A wine buying and information service. [Exp. #149.]

ZByte Games *http://www.insist.com/zbyte/* Manufacturer of casino quality, high-tech playing cards that allow design of 21st-century logic and binary games. [Exp. #148.]

Zeeters International Pools *http://www.zeeters.co.uk* British expatriates and other overseas fans of British football can now play the British Football Pools on the Internet. [Exp. #148.]

List Your Web Page

To list your Web home page for FREE, send us the name of the page/site, the URL (address), and a fifteen-word description. Also, please include a contact name and phone number for our reference only. Listings will run for three issues unless renewed. We reserve the right to select listings on a space-available basis and to edit those listings as needed. Send your listing to: *JohnDownen@aol.com*; Web Listings, 3470 Buskirk Ave., Pleasant Hill, CA 94523; or fax to (510)934-3958.

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- Dual Intel, Pentium CPU's
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- Adaptec 2940 PCI SCSI Controller I/O w/2 Serial, 1 Parallel w/16550
- Micropolis 9.1GB SCSI Drive
- TEAC 1.44MB Floppy Drive
- 14" NI, .28 DPI Color Monitor
- 1MB Trident Video Card
- Keytronics 101 Keyboard
- Full Tower Case w/300 WATT P/S
- 3Com 590C Ethernet Card
- USRobotics 28.8 v .34 Sportster
- Plextor SCSI Six-Speed CD-ROM

PENTIUM 90	**$6,779**
PENTIUM 100	**$6,899**
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PENTIUM 133	**$7,219**
PENTIUM 150	**$7,619**
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NETWORK STATION

- Pentium 75/90/100/120/133/150/166 4PCI/4ISA, Triton Chipset, 256k, Motherboard
- Intel CPU w/Heatsink & Fan
- 8MB 70ns, 72-Pin SIMM RAM
- 540MB IDE Hard Drive
- PCI EIDE Controller 2HD/FD I/o w/2 serial, 1 Parallel w/16550
- TEAC 1.44MB Floppy Drive
- 14" NI, .28 DPI, Color Monitor
- 1MB Trident PCI Video Card
- Keytronics 101 Keyboard
- Mini Tower Case w/230 WATT p/s
- Microsoft Serial Mouse
- 3Com 590C Ethernet Card

PENTIUM 75	**$1,149**
PENTIUM 90	**$1,239**
PENTIUM 100	**$1,289**
PENTIUM 120	**$1,339**
PENTIUM 133	**$1,519**
PENTIUM 150	**$1,619**
PENTIUM 166	**$1,819**

STAND ALONE -HOME/OFFICE

- Pentium 75/90/100/120/133/150/166 4PCI/4ISA, Triton Chipset, 256k, Motherboard
- Intel CPU w/Heatsink & Fan
- 16MB 70ns, 72-PIN SIMM EDO RAM
- 1.08 GB IDE Hard Drive
- PCI EIDE Controller 2HD/FD I/O w/2 Serial, 1 Parallel w/16550
- TEAC 1.44MB Floppy Drive
- 17" NI, .28 DPI, 1280 X 1024 Color Monitor
- 2MB Diamond Stealth PCI Video Card
- Keytronics MS 95 104 Keyboard
- Medium Tower Case w/230 WATT P/S
- 28.8 Baud, V.34 Internal Fax/Modem
- Microsoft Serial Mouse
- TOSHIBA Quad-Speed CD-ROM
- 16-BIT Sound Blaster "VIBRA" Card
- 80 WATT Media Stereo Speakers

PENTIUM 75	**$2,029**
PENTIUM 90	**$2,119**
PENTIUM 100	**$2,159**
PENTIUM 120	**$2,219**
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PENTIUM 150	**$2,479**
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14" 28 dpi, 1024 X 768	$219
15" 28 dpi, 1280 X 1024	$299

IMPRESSIONS

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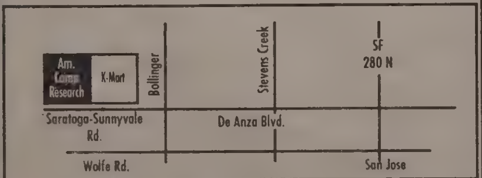
MAG

15" 28 dpi, 1280 X 1024	$379
17" 28 dpi, 1280 X 1024	$659

SHAMROCK

17" 28 dpi, 1280 X 1024	$579
17" 26 dpi, 1600 X 1280	$649



VIEWSONIC

15" ES .28 dpi, 1024 X 768	$369
15" G .28 dpi, 1280 X 1024	$409
15" GS .28 dpi, 1280 X 1024	$439
17" EA .28 dpi, 1280 X 1024	$669
17" GA .27 dpi, 1024 X 1024	$749
17" GS .27 dpi, 1280 X 1024	$699
17" PS .25 dpi, 1600 X 1280	$869
21" PS .26 dpi, 1680 X 1280	$1659

CASES

DESKTOP w/230 P/S	$ 49
MINI TOWER w/230 P/S	$ 39
MEDIUM TOWER w/230 P/S	$ 59
FULL TOWER w/250 P/S	$ 79
SUPER TOWER w/300	$165

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1. One year parts and lifetime labor warranty on systems.
2. Prices reflect cash discount.
3. Prices and availability subject to change w/o notice.
4. Shipping, insurance and COD charges are extra and non-refundable.
5. Return shipping must be insured, prepaid and bearing an RMA# on the shipping label.
6. Defective items replaced or repaired at our discretion.
7. Not responsible for typos.
8. All returns subject to 20% restocking fee.
9. Purchase orders are welcome and subject to approval.
10. No surcharge for checks.

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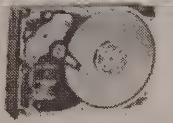

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WESTERN DIGITAL IDE 1.2 GB	$259
CONNER IDE 1.08 GB	$209
MAXTOR IDE 1.2 GB	$259
MAXTOR IDE 1.6 GB	$279
QUANTUM IDE 850 MB	$189
QUANTUM IDE 1.2 GB	$269

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- ***Model# 31280A***
- ***2 YEAR WARRANTY***
- ***11ms FAST, 4500 RPM.***
- ***128K Cache Buffer***
- ***300,000 Hours MTBF***

$256

E-IDE & SCSI DRIVES

Fireball Series-(5400RPM/128K Cache/3 Yr Warr)

				INT	EXT
1.2GB	31280FBA	12ms	IDE	$249	$NA
1.08GB	31080FBS	12ms	SCSI	$238	$307
1.2GB	31280FBS	12ms	SCSI		$CALL

TrailBlazer Series-(4500RPM/128K Cache/3 Yr Warr)

840MB	30850TRA	14ms	IDE	$194	$NA
840MB	30850TRS	14ms	SCSI	$190	$240

Capella Series-(5400RPM/512K Cache/5 Yr Warr)

2.2GB	VP32210S	8.5ms	SCSI	$619	$689

Grand Prix Series-(7200RPM/512K Cache/5 Yr Warr)

4.3GB	GP34301S	8.6ms	3.5"	$959	$1029

Atlas Series-(7200RPM/**1MB Cache**/5 Yr Warranty)

2.1GB	XP32150S	8ms	3.5"x1"	$786	$856
4.3GB	XP34300S	8ms	3.5"	$999	$1069

Saturn Series-(5400RPM/512K Cache/5 Yr Warr)

2.15GB	QM32170S	8.0ms	3.5"x1"	$639	$709
2.15GB	QM32170W	8.0ms	3.5"x1"	$655	$725

Sirocco Series-(5400RPM/512K Cache/5 Yr Warr)

1.7GB	QM31700SRA	8.0ms	3.5"x1"	$NEW	$CALL
2.5GB	QM32550SRA	8.0ms	3.5"x1"	$NEW	$CALL

Bigfoot Series-(3600RPM/128K Cache/5 Yr Warr)

1.28GB	QM51280BFA	8.0ms	3.5"x1"	$NEW	$CALL
2.5GB	QM52550BFA	8.0ms	3.5"x1"	$NEW	$CALL

IBM

1.0GB FAST SCSI-2

- ***Model# DPES-31080***
- ***3 YEAR WARRANTY***
- ***10.5ms FAST, 5400 RPM.***
- ***512K Cache Buffer***
- ***500,000 Hours MTBF***

$273

External .. $323

IDE & FAST SCSI-2 DRIVES

Deskstar XP -(MR Head Technology/3 Yr Warr)

				INT	EXT
1.0GB	DPES31080	10.5	SCSI	$273	$323

Satsuma Family- (3 Year Warranty)

728MB	94G2646	12ms	IDE	$269	$319

Ultastar XP Family-(MR Head Technology/5 Yr Warr)

2.3GB	94G3192	7.5ms	7200RPM	$1052	$1122
4.5GB	94G3198	8ms	7200RPM	$1662	$1762
5.1GB	06H8431	8ms	Audio Video	$1583	$1683
5.3GB	94G3794	7.5ms	7200RPM	$1419	$1519

MICROPOLIS

9.1GB FAST SCSI-2

- ***Model# MC1991***
- ***5 YEAR WARRANTY***
- ***10ms FAST, 7200RPM***
- ***3.5" x 1"***

$1999

External .. $2124

FAST SCSI-2 DRIVES

				INT	EXT
2.0GB	MC4221	8.5ms	3.5"x1"	$686	$756
4.0GB	MC3243	8.5ms	3.5"	$1015	$1085
9.1GB	MC1991	11ms	5.25"	$1999	$2124

Audio Video FAST SCSI-2

2.0GB	MC4221AV	8.5ms	1"	$758	$828
4.0GB	MC3243AV	8.5ms	3.5"	$1139	$1209
9.1GB	MC1991AV	11m	5.25"	$2198	$2323

HEWLETT PACKARD

2.17GB FAST SCSI-2

- ***Model# C3725S***
- ***5 YEAR WARRANTY***
- ***9.5ms FAST, 5400RPM.***
- ***512K Cache Buffer***
- ***800,000 Hours MTBF***

$621

External .. $691

ENHANCED IDE DRIVES

1.08GB	C5270A	12ms	3.5"x1"	$266
1.6GB	C5271A	12ms	3.5"x1"	$320

FAST SCSI-2 DRIVES

				INT	EXT
2.17GB	C3725S	9.5ms	3.5"x1"	$621	$691

Seagate

4.3GB FAST SCSI-2

- ***Model# ST15230N***
- ***5 YEAR WARRANTY***
- ***9ms FAST, 5411 RPM.***
- ***512K Cache Buffer***
- ***800,000 Hours MTBF***

$959

External .. $1029

Enhanced IDE DRIVES

850MB	ST5850A	12msFast ATA-2	$199
1.08GB	ST51080A	12msFast ATA-2	$219
1.63GB	ST31640A	NEWFast ATA-2	$359
2.14GB	ST32140A	NEWFast ATA-2	$398

FAST SCSI-2 DRIVES

Hawk Series-(5411RPM/512K Cache/5 Yr Warr)

				INT	EXT
1.0GB	ST31231N	9ms	3.5"x1"	$379	$429
2.1GB	ST32430N	9ms	3.5"x1"	$669	$739
4.3GB	ST15230N	9ms	3.5"	$959	$1029

Barracuda Series-(7200RPM/8ms Avg Seek/5 Yr Warr)

2.1GB	ST32550N	512K Cache	3.5"x1"	$729	$799
4.3GB	ST15150N	1MB Cache	3.5"	$1214	$1314

Elite Series-(5,400RPM/1MB Cache/5 Yr Warranty)

9.0GB	ST410800N	11ms	5.25"	$2179	$2304

CONNER

850MB E-IDE

- ***Model# CFS850A***
- ***5 YEAR WARRANTY***
- ***<15ms 5400 RPM.***
- ***3.5" x 1"***

$186

External .. $659

Enhanced IDE DRIVES

FileProSeries-(3,600RPM/64K Cache/1-3 Yr Warranty)

540MB	CFS541A	<15ms	3.5"x1"	$165
1.27GB	CFS1275A	<15ms	3.5"x1"	$232
850MB	CFS850A	<12ms	3.5"x1"	$186

FilePro Advantage Series-(4,500RPM/256K Cache/ up to16.7MB/s Data Trans Rate / 1-3 Yr Warranty)

1.27GB	CFA1275A	<12ms	3.5"x1"	$259

FAST SCSI-2 DRIVES

FilePro Performance-(512K Cache/5 Yr Warr)

				INT	EXT
1.0GB	CFP1080S	11ms	5400RPM	$265	$312
2.1GB	CFP2105S	8.5ms	5400RPM	$583	$653
2.1GB	CFP2107S	8.5ms	7200RPM	$625	$695
4.2GB	CFP4207S	9ms	7200RPM	$923	$993

Maxtor

Enhanced IDE DRIVES

540MB	7541AV	12ms	3.5"x1"	$177
850MB	7850AV	12ms	3.5"x1"	$194
1.2GB	71260A	<12ms	3.5"x1"	$268
1.6GB	71626A	<12ms	3.5"x1"	$272

Audio Video

ENHANCED IDE

WESTERN DIGITAL

Enhanced IDE DRIVES

635MB	AC2635	***NEW***	3.5"x1"	$179
850MB	AC2850	<10ms	3.5"x1"	$193
1.0GB	AC21000	***NEW***	3.5"x1"	$218
1.28GB	AC21200	<10ms	3.5"x1"	$CALL
1.28GB	AC31200	<10ms	3.5"x1"	$269
1.6GB	AC31600	<10ms	*NEW*	$299

ENHANCED IDE

FAST WIDE

Seagate

				INT	EXT
1.0GB	ST31230W	9ms	3.5"x1"	$522	$702
2.1GB	ST32430W	9ms	3.5"x1"	$768	$948
2.1GB	ST32550W	8ms	3.5"x1"	$894	$1074
4.3GB	ST15230W	9ms	3.5"	$1059	$1239
4.3GB	ST15150W	8ms	3.5"	$1329	$1509
9.0GB	ST410800W	11ms	5.25"	$2199	$2349

FAST WIDE DIFFERENTIAL

4.3GB	ST15150WD	8ms	3.5"	$1338	$1588
9.0GB	ST410800WD	11ms	5.25"	$2299	$2599

Quantum

2.1GB	XP32150W	8ms	3.5"x1"	$859	$1039
2.2GB	VP32210W	8.5ms	3.5"x1"	$699	$879
4.3GB	GP34301W	8.6ms	3.5"	$1069	$1249
4.3GB	XP34300W	8ms	3.5"	$1186	$1366

MICROPOLIS

2.0GB	MC4221W	8.5ms	3.5"x1"	$799	$979
4.0GB	MC3243W	8.5ms	3.5"	$1225	$1405
9.1GB	MC1991W	11ms	5.25"	$2289	$2539

Audio Video FAST WIDE

2.0GB	MC4221WAV	8.5ms	3.5"x1"	$856	$1036
4.0GB	MC3243WAV	8.5ms	3.5"	$1279	$1459
9.1GB	MC1991WAV	11ms	5.25"	$2451	$2701

FAST WIDE DIFFERENTIAL

2.0GB	MC4221WD	8.5ms	3.5"x1"	$959	$1209
4.0GB	MC3243WD	8.5ms	3.5"	$1264	$1514

CONNER

1.0GB	CFP1060W	9ms	3.5"x1"	$555	$735
2.1GB	CFP2105W	8.5ms	5400RPM	$726	$906
2.1GB	CFP2107W	8.5ms	7200RPM	$762	$942
4.2GB	CFP4207W	9ms	7200RPM	$1209	$1389

2.5" NOTEBOOK DRIVES

TOSHIBA

Up to 16.6MB/s Trans Rate

2.5" Series - (4,200RPM/128K Cache/1 Yr Warranty)

540MB	MK1924FCV	13ms	12.7mm	$CALL
810MB	MK1926FCV	13ms	12.7mm	$445
1.3GB	MK2720FC	NEW	19mm	$574

Seagate

262MB	ST9300AG	16ms	IDE	19mm	$270
420MB	ST9420AG	16ms	IDE	19mm	$295
455MB	ST9550AG	16ms	IDE	19mm	$385
524MB	ST9655AG	16ms	IDE	19mm	$314
810MB	ST9816AG	16ms	IDE	19mm	$468

Quantum

540MB	20540EUA	IDE	$299
810MB	20810EAU	IDE	$413
1.08GB	21080EAU	IDE	$413

IBM

540MB	06 H 8564	$299
720MB	06 H 8566	$413

HITACHI

540MB	DK222A-54	12ms	IDE	12.5mm	$250

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OPTICALS

Maxoptix

1.3 Rewritable Optical Drives **INT/EXT**

Tahiti-4M	1MB Cache buffer (HH)	$1668/1806
Tahiti-4M	4MB Cache buffer	$CALL
Tahiti-4M	1MB Cache 2.6GB Internal	$CALL
Tahiti-3M	1MB Cache buffer	$1735/$1845
Tahiti-3M	4MB Cache buffer	$1788/$1986
1.3GB Cart (512 or 1024b Sector) Glass/Poly		$148/$67
2.6GB Cart (512 or 1024b Sector) Poly		$86

HEWLETT PACKARD

Rewritable Optical Drives **INT/EXT**

C1716T	1.3GB 5.25" INT/EXT	$1921/$1967
C2550A	1.3GB 5.25" External	$2172
C1100A	20GB Ext Juke Box (20XT)	$4491
1.3GB(1024b/s) or 1.2GB(512b/s) cartridge		$79

PINNACLE MICRO
THE OPTICAL STORAGE COMPANY

APEX 4.6GB

4.6GB Optical Storage System

4.6 MAC	External 4.6GB for MAC	$1568
4.6 PC	External w/Adaptec SCSI Interface	$1546
4.6 PCi	Internal w/Adaptec SCSI Interface	$1540
4.6 GB	Cartridge	$189

SIERRA 1.3GB

1.3GB Optical Hard Drive Storage System

1.3 MAC	External 1.3GB for MAC	$1719
1.3 PC	External w/Adaptec Interface	$1739
1.3 PCAN	External for PC (no Interface)	$1764
1.3 PCi	Internal w/Adaptec Interface	$1729

TAHOE 230MB

The Next Generation of the First Portable Optical Drive

230 MAC	Portable 230MB for MAC	$579
230 PCT	Portable for PC (Parallel)	$784
230 PCA	Portable w/Adaptec Interface	$711
230 PCAN	Portable for PC (no Interface)	$581
Pak-Travel	Battery,charger & travel case	$120

IBM

230MB & 1.3GB Rewritable Opticals

230MB Internal/(External with cart)	$539/$669
1.3GB Internal 5.25" Removable MO	$1678
1.3GB External 5.25" Removable MO	$1999

REMOVABLE DRIVES

SyQuest

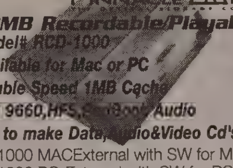
135MB	EZ135P	3.5"PC	Ext Parallel	$219
200MB	SQ5200C	5.25"	SCSI	$349
200MB	SQ5200CE	5.25"	SCSIExt w/cart	$495
200MB	SQ5200CEM	5.25"	SCSIExt for Mac	$489
270MB	SQ3270S	3.5"	SCSI	$329
270MB	SQ3270SE	3.5"	SCSIExt w/cart	$430
270MB	SQ3270SEM	3.5"	SCSIExt for Mac	$444
270MB	SQ3270SEP	3.5"	PC Ext Parallel	$515
200MB	SQ Cartridge	5.25"		$82.95
88MB	SQ Cartridge	5.25"		$58.95

IOMEGA

100MB ZIP DRIVE SCSI or Parallel	$199
100MB ZIP Cartridge	$22.95
1.0GB JAZ DRIVE Ext. SCSI	$603
1.0GB JAZ DRIVE Int. SCSI	$503
1.0GB JAZ Cartridge	$99

CD RECORDERS

PINNACLE MICRO
THE OPTICAL STORAGE COMPANY



Recordable CD-

650MB Recordable/Playable CD

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RCD-5020e MacExternal 2X with SW for Mac	$1187

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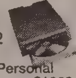

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2XRecord/4XRead Complete CD Kit, Includes SCSI-2 Interface Card, Easy CD File Recording Software, Alchemy Personal Data Management Software, & Unlimited Tech Support $1029

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Bare Drive w/o Software $1032

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2X Record/4X ReadSCSI-2 for PC
with INCAT EZ CD PRO Software $1119

CDD2000MT
2X Record/4X ReadSCSI-2 for MAC
withTOAST MULTIMEDIA Software $1264

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CDR 100iB
4X Record/4X Read SCSI INT. Bare Drive
for PC w/o Software $1409

CDE 100eB
4X Record/4X Read SCSI EXT. Bare Drive
for PC w/o Software $1512

CDR 100iPEZ
4X Record/4X Read SCSI INT. for PC
with INCAT EZ CD Software $1524

CDE 100ePEZ
4X Record/4X Read SCSI EXT. for PC
with INCAT EZ CD Software $1627

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4X Record/4X Read SCSI INT. for MAC
with TOAST MULTIMEDIA Software $1574

CDE 100eMT
4X Record/4X Read SCSI EXT. for MAC
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KODAK

PCD WRITER 600
6X Rec/2X Read SCSI 2MB Buffer Mac/PCw/Software ... Call

DISC TRANSPORTER
75 Disc Industrial Mass Replicator, 8 sec disc transfer .... Call

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HD500	Portable 500MB+ Hard Drive	$299
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HD1200	Portable 1200MB+ Hard Drive	$409
HD1600	Portable 1600MB+ Hard Drive	$449
HD2000	Portable 2000MB+ Hard Drive	$CALL

FLOPPY DRIVES

TEAC

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FD-235	3.5"	1.44MB	$34
FD-235B	3.5"	1.44MB	$38
FD-505	COMBO1.2/1.44		$95

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EAGLE 96 INT. 850MB up to 3.2GB Backup Drive

Includes Drive, 2Mbit accellerator card, DOS, Win 3.1 & Win 95 Software, Cables & Manual (MC300XL Tape) Up to 20MB/ min. IBM & DOS compatable PCs. 2 year warranty. Free Wonld Wide Tech Support $234

		INT / EXT
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2501K	Complete Kit for PC	$537/$607
4200C	4GB up to28MB/min w/Comp	$777/$827
8205XL	3.5-7GB up to 32MB/min w/Comp	$1241/$1309
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HEWLETT PACKARD

The Most Reliable Tape Backup for Your Valuable Data

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C1534A	2.0GB 3.5" 183kb/sec DDS	$644/$699
C1536A	4-8GB 3.5" ** **NEW** **	$751/$815
C1533A	4-8GB HW Data Comp DDS-2	$874/$939
C1553A	24-48GB 6-Cart Autoloader cap.	$1939/$2039
HP-BKT	C90101 5.25" Bracket for 3.5" DAT Units	$29
HP-BKT	C90100 5.25" Bracket for 3.5" DAT Units	$27

CONNER®

Archive Viper 1/4" Series...

			INT	EXT
2150S	250MB	112KB/sec	$311	$361
2525S	525MB	200KB/sec	$459	$529

Python 4mm DAT Series...

4320NT	2GB up to 11MB/min - INT/EXT	$759/$856
4324NP	4GB Turbo-22MB/min 1MB Cache-INT	$777
4326NP	4-8GB 5MB/sec 1MB Cache -INT	$869
4584NP	Int 16GB (Auto Loader DAT)	$2119

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TS420	420MB Runs Off Floppy Port	$148
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TS850P	850MB (QIC WIDE) Parallel Port	$319
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TS3200	3.2GB TRAVAN3-w/Floppy Cont	$265
TS4000A	4.0GB (QIC WIDE)-IDE w/Card	$368
TS4000	4.0GB (QIC WIDE)-SCSI	$369
TS4000E	4.0GB (QIC WIDE)-SCSI External	$465
MS4000	4.0GB (QIC-WIDE)-SCSI for File Server	$534

COLORADO™ MEMORY SYSTEMS INC.

Mini Data Cartridge Series (Floppy Based)

DJ35	350MB (JUMBO 350)	$116
DJ25	680MB (JUMBO 700)	$181
T1000	800MB HP Colorado TRAVAN	$157
DJ50	1.4GB (JUMBO 1400) *NEW*	$323

POWERTAPE ***High Performance SCSI Series***

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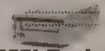
PT10	1.0GB	SCSI-2	1/4"	$609	$679
PT25	2.0GB	SCSI-2	1/4"	$936	$1069
PT50	4.0GB	SCSI-2	1/4"	$1119	$1345
PD60	2-4GB	SCSI-2	DAT	$967	$1025

Trakker ***Parallel Port Backup solutions***



JT35	350MB	TRAKKER	(350)	$166
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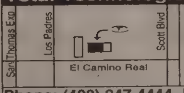

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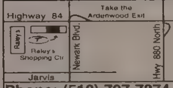

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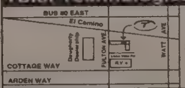

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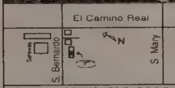

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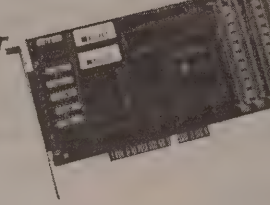
IDE

BUSLOGIC



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- •W/MultiFunction 16550 I/O
- •Enhanced Parallel Port
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2183	16Bit IDE CD-ROM Controller	$11
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2280E	16Bit ISA IDE Super16550 I/O 2S/1P/1G	$17
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AT32VPK	ISA E-IDE Controller	$48
AT42VPK	ISA E-IDE Controller w/Floppy	$57
VL-VPK	VLB E-IDE Controller	$76
2825VL	32-bit E-IDE/SCSI-2 Kit	$114

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sIDE-1/16	8Bit PC/XT IDE Cont. W/BIOS	$28
sIDE-2/PCI	32Bit PCI 2HD Enhanced IDE	$34
sIDE-3/Plus	16Bit 2HD/2FD IDE w/Smart BIOS	$46

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Side,,L	32-Bit VLB,2HD/2FD,E-IDE,2-16550 High Speed Serial,EPP and ECP,2.88 Support	$29
Side,,Plus	Similar to Above with BIOS,Dual Chnl 2HD/2FD, >528MB Support (Jumperless)	$40
Side-2610	16-Bit ISA,2H/2F,2-16550 High Speed Serial,1Bi-Directional Parallel EPP and ECP,2.88 Sup	$29
Side-2910	32-Bit PCI/E-IDE/Dual Chnl 4HD, >528MB Support, up to 13MB/sec data transfer	$15
Side-2615	16-Bit ISA,Dual Chnl 4H/2F,4-16550 Serial, 2Bi-Directional Parallel EPP & ECP	$56

Total Technologies

IDE & Enhanced IDE Controllers

200	16Bit ISA 2HD/2FD Controller w/Cables	$11
211	16Bit ISA 2HD/2FD w/2Serial\1Par\1Game	$10
243	32Bit VLB 2H/2F 2S/1P/1G E-IDE	$25
400	16Bit ISA 2HD/2FD 2-16550S/1EPP/1G	$19
500	32Bit VLB 2H/2F 2-16550S/1EPP/1GE-IDE	$31
600	32Bit PCI 4H/2F 2-16550S/1EPP/1G E-IDE	$36

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DC5030	BusMaster PCI IDE Caching Controller	$125
DC540	BusMaster PCI SCSI WIDE(no Cable)	$177

TYAN

S1346	VLB E-IDE & High speed I/O	$29
S1368	PCI E-IDE & I/O (2 IDE channels)	$39
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2742TK	32Bit Twin-EISA Kit,14HDs **KIT**	$349
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2842AVL	32Bit Fast SCSI-2 VLB Kit	$227
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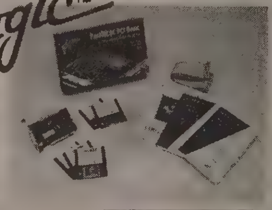

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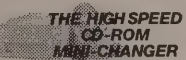

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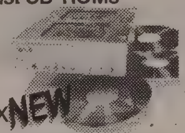

		INT /EXT
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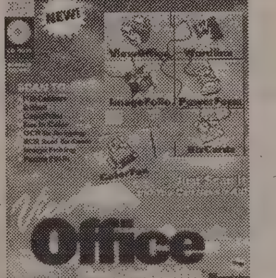

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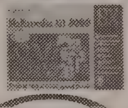

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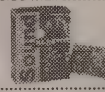

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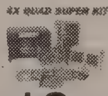

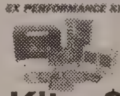

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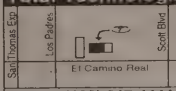

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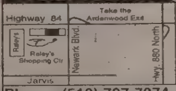

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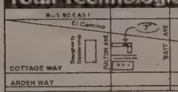

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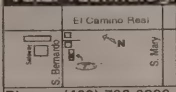

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- TRITON Chipset
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- PCI-EIDE & Floppy Controller
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- 1.44 Mitsumi Floppy Drive
- Diamond Stealth 64 2MB DRAM PCI Video Accelerator Card
- Acer 6X-Speed IDE CD-ROM 900Kb/sec with Audio Cable
- Sound Blaster AWE 32 WaveTable Sound Card
- Supra 28.8 Int. Plug & Play Fax/Modem
- Windows 95 104 Keyboard
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- 80 Watt Multimedia Stereo Speakers
- Microsoft Windows 95 Installed
- Cyber Pack III
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- Intel Pentium 133MHz. CPU with Heatsink
- Intel TRITON Chipset
- 256K Burst Cache
- PCI-EIDE & Floppy Controller
- 4 PCI / 4 ISA Slots Plug & Play ready
- 16MB RAM expandable to 128MB
- 1.2GB Western Digital E-IDE Hard Drive (AC31200)
- 1.44 SONY Floppy Drive
- Diamond Stealth 64 2MB DRAM PCI Video Accelerator Card
- Acer 6X-Speed IDE CD-ROM 900Kb/sec with Audio Cable
- Sound Blaster Vibra 16-bit Stereo Sound Card
- Supra 28.8 Int. Plug & Play Fax/Modem
- Mitsumi Windows 95 104 Keyboard
- Microsoft 2 Button Mouse
- 80 Watt Multimedia Stereo Speakers
- Microsoft Windows 95 Installed
- CD Cyberpack III
  - Compton's Encyclopedia • Sports Illustrated Multimedia Almanac
  - Family Doctor • Spector VR • CD Deluxe Chess Master
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- 8MB RAM
- 540MB Hard Drive
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- Accelerated Local Bus Graphics
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Satellite Pro 400CS Notebook

- 75MHz. Pentium Processor
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- 24-bit Video Graphics
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COMPAQ

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- 75MHz. Pentium Processor
- 8MB RAM
- 510MB Hard Drive
- 10.4" Passive Matrix Color Display
- 32-bit PCI Video Acceleraton
- Infrared Communication
- 16-bit Stereo Audio
- Microsoft Windows Pre-loaded

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- 120MHz. Pentium Processor
- 8MB RAM
- 1.3GB Hard Drive
- 10.4" Active Matrix Color Display
- Microsoft Windows Pre-loaded

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NEC

Versa 2000 Notebook

- 75MHz. 486/DX4 Processor
- 4MB RAM
- 330MB Hard Drive
- 10.4" VGA DSTN
- Type II & III PCMCIA Support
- Touchpad
- High Performance Local Bus Video
- 2 Memory Slots

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Versa 4000 Notebook

- 90MHz. Pentium Processor • 8MB RAM
- 810MB Hard Drive • 10.4" VGA TFT
- 2X CD-ROM Drive • 2 Memory Slots
- High Performance Local Bus Video
- Type II & III PCMCIA Support
- Touchpad

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Omnibook 600 Notebook

- 75MHz. 486/DX4 Processor
- 8MB RAM
- 260MB Hard Drive
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- 32-bit Local Bus Video Acceleration
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- PCI Graphic Acceleration
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- 256K Cache
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2X CD-ROM	$241
4X CD-ROM	$329

Canon

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- PCMCIA Slot
- Touchpad Mouse
- 16-bit Stereo Audio

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Windows 95 Pre-installed

- 75MHz. Pentium Processor
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- 810MB Hard Drive
- 11.3" SVGA TFT
- Plug & Play BIOS
- PCI Bus
- Trackpoint'
- 16-bit Stereo Audio

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ActionNote 660C Notebook

- 66MHz. 486/DX2 Processor
- 8MB RAM
- 340MB Hard Drive
- 10.3" VGA DSTN
- Type III PCMCIA Support
- Touchpad Mouse
- Windows Pre-loaded

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ActionNote 895 Notebook

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- Integrated 16-bit Audio
- ActionPoint Touchpad
- Built for Windows 95

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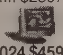

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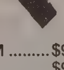

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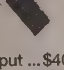

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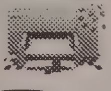

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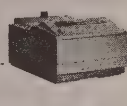

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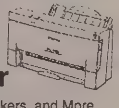
Canon



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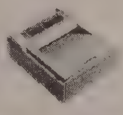

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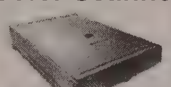

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- 256 Levels of Grey

A600C Plus Single Pas Color Scanner	$429

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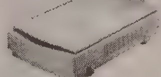

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- Model PCLE2
- SCSI-2 for Mac or PC
- 2400x2400dpi
- 8.5" x 14" Scanning Area
- 16.8 Million Colors
- 256 Levels of Grey

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2400 dpi Scorpio Flatbed Color Scanner

- SCSI-2 for Mac or PC
- 2400x2400dpi
- Single Pass Scanning
- 8.5" x 14" Scanning Area
- 16.8 Million Colors
- 256 Levels of Grey

$449
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9600 dpi Taurus Flatbed Color Scanner

- SCSI-2 for Mac or PC
- 9600x9600dpi
- Single Pass Scanning
- 8.5" x 14" Scanning Area
- 16.8 Million Colors
- 256 Levels of Grey

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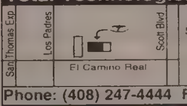

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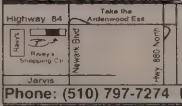

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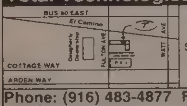

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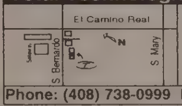

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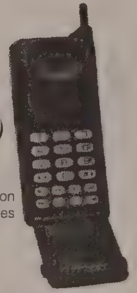

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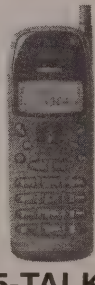

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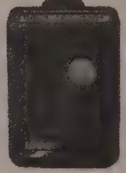

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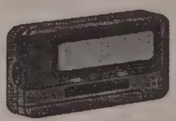

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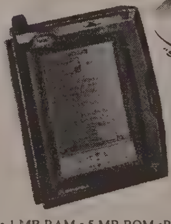

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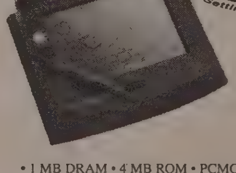

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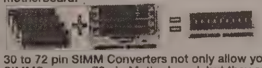

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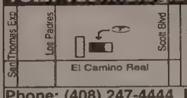

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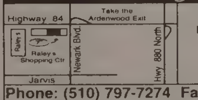

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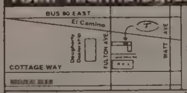

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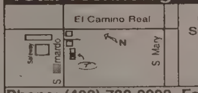

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vacy or pornography on the Internet or who simply want to believe that because they themselves enjoy using this technology that there are no dangerous consequences to a world that becomes dominated by that technology.

I've no doubt that there are individuals who are made happier by this. Likewise, I have no doubt that there are individuals made unhappier by it. There are wonderful things that happen with this technology and awful things that happen on an individual basis with this technology. That's irrelevant.

What's relevant is that this techno-structure that we've created is destructive both to human societies and to natural environments. And both of those are going to fall apart if we continue on this path. It seems to me that all the signs are there that should alert everybody to this. But nobody wants to pay attention to it, any more than they wanted to pay attention to the people who said that the steam engine is going to produce misery. All they could see is the steam engine is producing jobs—for women and children—and producing cloth, which it did.

I don't see how objectively you could look around at what's been happening in the last twenty-five years in this society and say that the computer technology we have has produced anything but increasing social tensions and misery. In addition, in the face of increasing assaults on the environment, the World Watch Institute argues that there is not one life support system on earth that is not being threatened. It's true that a few benefit from this revolution and it's true that there may be the incidental happy experience.

Putting aside the issue of the negative impact on some for a moment, there is also a question of sharing the potential benefits rather than only the few enjoying them, which is ultimately a question of economic justice/economic policies. Others in your camp, like Jeremy Rifkin, argue along these lines.

I am not exactly sure where Jeremy comes down on this, although his recent book [*The End of Work: The Decline of the Global Labor Force and the Dawn of the Post-Market Era*] seems to think that the federal government is going to create the Third Sector he wants created. That seems folly to me. There are certain technologies which cannot be ultimately beneficial and democratized and provide economic or social justice; they are not capable of that kind of transformation and it doesn't matter who tries to control them. Whether it's the kibbutz that tries to control it or the Russian state, those technologies will end up serving the interests of the kinds of institutions that created them.

And those technologies you are talking about are the ones associated with what you call the Second Industrial Revolution or what others label the Third Wave or even Post-Modern, basically all the technologies associated with microelectronics?

Absolutely, but this would hold true of any technology in any society. All technologies are the mirror of their society and do those things that the society wants.

You know that the steam engine was invented in 500 A.D. by Hero in Alexandria. People could have put it to perfectly good use, except that they didn't need it. They had slaves and they had a very small-scale society in which this was useless. It was an invention that went out there and simply died; nobody cared about it. And there are probably many such in our society right now that die. The Patent Office is probably full of these things that nobody wants, that never get out into the culture because they are not of that culture. My point is simply that adopted technologies are the extension of that culture.

The intellectuals and activists who make up the hard core of people who call themselves neo-Luddites are not people who are going to be displaced from their jobs by machines, but who are aware that there is a great deal of displacement by these machines.

To a degree. Yes, they put into place certain things that can happen, but what actually happens is usually pretty different.

Let's look at the computer revolution and what actually happens.

What we can see is that in the twenty-five years of the computer revolution the economic distance between the have nations and the have-not nations has increased alarmingly. The poor are getting poorer; the rich are getting richer. What we can also see is that within these societies the poor are getting poorer, the rich are getting richer—within all societies, both the poor ones and the rich ones.

In general, what we can sense is a vast increase in unhappiness, vast social and psychological malaise of which I would argue that the 1994 elections are only one small part, but a part. I would argue that the rise in talk radio is also evidence of that kind of thing. But I can tell you also that the rise in alcoholism and illiteracy are similar pieces of evidence for this.

If we look at these last twenty-five years we can see a pattern that has no necessary way of doing anything but continuing. I can't see the conditions under which these patterns will not continue to increase. On top of that, add in all the effects of this techno-structure on the biosphere. Put it all together into a package and this is what our future will be. I am trying to say "wake up," but I don't know what exactly to do to get us out of this nightmare.

Besides yourself, who else do you see as part of this group?

There is this basic core of intellectuals/activists/writers who will call themselves neo-Luddites. There are of them maybe 100 or 200. We would include Jeremy Rifkin, Wendell Berry, Jerry Mander, Helena Norberg-Hodge, a lot of people in Green politics in Europe and some in California as well. People who are not afraid to say they are Luddites.

One criticism of this group is, So what? You are arguing something that is not going to make a difference as opposed to a platform that can make a positive difference.

If you are suggesting that there is some kind of platform that is the reformist platform, I cannot imagine what it would be. It seems to be doomed to failure, as doomed to failure as the reformists of 1812 were. You are not going to reform the industrial system in any significant way.

But here you are in beautiful upstate New York...

That is called escape, not reform.

But I thought you felt that you cannot escape the system?

That is what the Amish do, that's what intentional communities do. What's the question here, reform? Why don't we go for reform?

What are the opportunities to shift things toward your vision of the future?

I don't think we can. All I think we can do is escape and create pockets of resistance. This is a classic strategy that is both military and non, but it goes back to Kropotkin and others.

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But the millions of people in New York or whichever city cannot just get up and escape.
I don't know, they might and they might not. If they wanted to they might be able to. But it is just not something they are thinking about. They might even be able to create pockets within farther Queens. There are an awful lot of pockets within Queens that are almost separate from the rest of the world.

You cannot depopulate the cities; that's been tried.
Well, you'd better ultimately depopulate the cities because the cities are by definition antisocial, antihuman, antiecological. But what I am positing as a reality is the possibility of increasing numbers of people creating pockets where they are devoted to the restoration and protection of the earth, living in a communitarian existence of some kind as they can define it, and, insofar as possible, escaping and resisting the technologies of this society around them. Now, obviously when you do that you don't escape entirely from the reaches of the IRS or the telephone company or the electric company—we don't want to. But you can to a substantial degree absent yourself from many of the technologies and systems of this society. As you do this you can increasingly find yourself empowered in self-sufficiency rather than dependent upon these large systems. Indeed, you can create your own currency in your community, and you don't have to use the federal government's currency at all. And you don't have to then ultimately pay taxes. This is all possible and in the Schumacher society on whose board I have sat for fifteen years, we are working to push the idea of community-controlled currencies as a means of doing this. There are other means as well.

In this vision, you don't argue that you can reform the vast power that is industrial society. You don't argue that you could revolt against it successfully. You argue only that you try to absent yourself from it, try to escape from it, try to live with other preoccupations, largely those of nature, in mind.

Then when this industrial civilization destroys itself, as all civilizations have, then in the ashes of that destruction there might well exist these pockets of resistance which will then provide the models of how we create a new society in the future.

This is a bit of a devil's advocate question: How much of what you said is left over from the '60s analysis of "dropping out" to go start the commune in an isolated area in Vermont? I don't mean to attack all of this, but ultimately didn't that fail?
No. There are at the moment approximately 750 intentional communities willing to be part of the intentional community network. I don't think that even in the height of the '60s/early '70s there were more than 1200. It hasn't failed. There are communities that exist and have existed thirty, and some fifty or more, years.

And some of the people who came out of those intentional communities are now involved in shaping an alternative society with this technology.
A lot of them went in with no better idea than they wanted to get away from Mom and Dad or they wanted free sex and drugs. That's not the point.

The point is that grounded in a vision and a philosophy, such communities could have a real strength and endurance. In fact, this is the only thing that I think would endure when everything else self-destructs. Which is not to say this is an easy course to take or indeed that they will survive the self-destruction of the industrial system when it comes. Merely that that is an alternative I am trying to foster.

Other than opting out, it doesn't matter what someone does?
There is a whole other way. But you are asking a different question now. The answer to that is there is a moral way of living within the systems and institutions that surround us. It is a trivial and unreverberative way of acting, but you do it because it is moral. That is to say, I ride a bicycle in Manhattan, have a compost pile, and recycle *everything* that comes into the house—and very little comes into the house if I can help it. In this existence I try to live as good a citizen on the earth that I can. You do that not because it is going to alter the ultimate ecological destructions that are coming—it is not going to have any effect—but because it is the right way to live.

In that same way as you can choose some systems to opt out of, ultimately you can choose to opt out of more and more and create these alternative communities and alternative societies. Not that you are thereby going to change the corporate-industrial system, rather, you are going to escape from it along paths that are better for you and better for the earth. That's all.

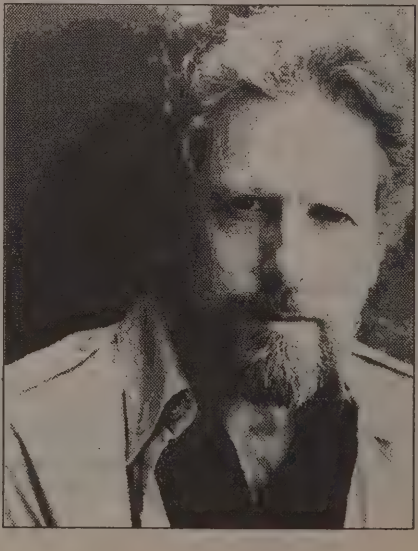
Every civilization has collapsed. It is a very short-term creation, civilization. It rises and absorbs power, and as it does so it destroys within and it destroys without—and always has. You may think that all of history is made up of the history of civilizations. That's not true. It is only because the people who write that history, as we started this conversation with, are the people who come from civilizations. They can't see the vast plains out there; all they can see is the mountains where the civilizations have risen. But most of the land is flat and undulating plains. That's how most of humans have lived, always. And the civilized mountain comes up and lasts for a little while and destroys itself.

The industrial [civilization] will be self-destructive as well. It's only 500 years old, or 200 years old if you want to look at it as purely industrial. That's no time at all. We have had civilizations that have lasted longer than that. But they all destroyed themselves. Isn't that hopeful?

Since you don't use most of the technologies we have been talking about, why should our audience pay attention to you?
What difference does it make whether I use the technology or not? Could I not be right?

It is true that I don't know about the specifics of these technologies, but that's irrelevant. I do know what the long-term large social and environmental effects of them are. This understanding is available just by looking around. The effect of this technology is something that I do work at learning about; the effects of this technology and the techno-sphere that we have created are evident to anybody who pays attention to what is happening to the biosphere. The techno-sphere is rising and it is polluting and destroying the biosphere. You don't have to know precisely how it does that to know that it does do that. ■

Kirkpatrick Sale



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XIRCOM NetAccess 4-pt/8-pt	2,609/4,563

ISDN Connectivity

3COM Impact 3C871-(MPPP)/3C872 w/modem	426/590
ASCEND Pipeline 25 Base w/NT1	684
Pipeline 25 w/NT1 & Compression	934
Pipeline 25 w/NT1 & IP Routing/IPX Routing	934/934
Pipeline 25 w/NT1, COMP, IP/IPX	1,151
Pipeline 25 w/NT1, COMP, IPX	1,170
Pipeline 50 Single w/NT1, COMP, IPX,IP	933
Pipeline 50 Multi w/NT1, COMP,IPX,IP	1,302
Max 1800 8BRI/16 users	5,342/6,010
DIGI Datafire 16 Bit ISDN (PPP)	409
PC-IMAC ISDN	533
PC-IMAC Multiport ISDN/4-1/4-2/4-4	672/1,064/2,092
IBM 7845 Extended NT1 for voice/data w/ battery	357
MOTOROLA UTA220 ISDN w/NT1	669
HMTA200 ISDN/v.32/Fax w/NT1	711
BitSurfr PRO ISDN Term Adapter w/NT1/2 ANALOG	399
BitSurfr PC ISDN Internal TA	307
NT1D Network Terminator	186
US ROBOTICS Sportster ISDN adapter	399
Courier-I Modem w/V.34 w/Analog Int	630
Courier I-Modem w/ISDN/v.34 w/ Analog Port Ext	743
Courier-I Modem w/ISDN/V.34 w/o Analog Port Int	588
Courier-I Modem w/ISDN/v.34 w/o Analog Port Ext	702

Network Printing Solutions

CASTELLE Jetpress XIO BNC/10Base-T	381
Jetpress MIO for HP4/MIO PLUS	349/451
LANPress 10BT(1 Parallel)/Combo (1P/1S)	313/362
LANPress THICK/10BT (2 PAR/2SER)	512
HEWLETT PACKARD JetDirect 10BT MIO	330
JetDirect Combo MIO BNC/10BT	400
JetDirect Ethernet EX/EX Plus3	362/484
JetDirect Token Ring EX/EX Plus3	567/682
INTEL Netport EL Ethernet/Token Ring	422/588
NetportExpress XL for Ethernet/Token Ring	463/630
MILAN Fastport 3110CX 10BT, Multi-Protocol, 1P/2S	396
Fastport 3210X 2P/2S or 3500X Token Ring	485/521

Network Fax Solutions

CASTELLE FaxPress 1000, 10BT/BNC	1,576
FaxPress 2000 1-line/FaxPress 2000 2-line	2,367/2,709
Faxpress 3000 2-line/FaxPress 3000 4-line	3,079/3,623
CHEYENNE FaxServe 3 NLM 5/10/25	393/717/1,177
FaxServe 3 NLM 50/100	1,816/2,533
FaxServe 3 NLM 250/500/1000	3,801/4,982/6,229
DELRINA Net Satisfaxtion for 8 fax boards (25 users)	786
Net Satisfaxtion (1000 users)	1,040
Winfax Pro for Networks 10/25/50	626/1,489/2,774
Starter Kit (1 Server, 2 nodes)	284
GLOBAL VILLAGE FaxWorks (Win) 2/10/25	145/494/816
PURE DATA Satisfaxtion Modem 200/400	244/315
Satisfaxtion Modem 2000/4000 2pt/4pt	1,157/1,822
U.S. ROBOTICS Ethernet/TR Fax Server	1,970/2,227

Network CD-ROM

MERIDIAN CDNET PLUS DOS/NLM (10 Users Start)	677
CDNET Plus DOS/NLM (100 Starter Kit)	1,482
CDNET Plus Expand (50/100)	525/896
MICRO DESIGN SCSI Express for NetWare, MDI	599
SCSI Express CDROM, Non-MDI	808
CD-Rom LaserBank 600CD Ext. Single/Dual	599/1,117
MICROTEST Discport Ethernet/Token Ring	488/818
Discport w/ Discview Pro ENET/TR	733/1,066
Discport w/NEC Ext. 6X Speed CD-Rom	1,140
Discport w/NEC 6X 4CDROM in 7-Unit Tower	3,173
Discport w/NEC 6X 7CDROM in 7-Unit Tower	4,838
DiscServ NLM	558

Uninterruptible Power Supplies

APC Back-UPS 400/450	163/200
Back-UPS 600/900/1250	273/392/512
Powerchute Plus for Novell/Unix	99/149
Smart-UPS 450/700/700RM/1000	330/398/499/548
Smart-UPS 1000RM/1400/1400RM	646/675/805
Smart-UPS 2200/3000	1,183/1,901
Matrix 3000/5000/Smartcell	3,720/4,616/537
SNMP Agent for Novell/SNMP Mgr for Netware	125/145

Cable Testers & Supplies

RG58 & RG62 Rachet BNC Crimper/RJ45	45
RG58 Ethernet BNC-Crimp (100 pak)	125
RJ45 10 BaseT Connectors (100 pak)	40
10Base-T Cable (1000' min) LV3/LV 5	100/200
BELDEN PVC RG58 or RG62 Cable (1000' min)	175
PLENUM RG58 or RG62 Cable (1000' min)	350
MICROTEST MT310 Kit	739
MT350 Value Kit/Fiber Solution Kit	1,837/1,482
Penta Scanner/Compas Kit	2,706/3,967

Novell Software

Lan WorkPlace for DOS Single/10 Users	309/1,508
Lan Workplace for Mac Single/10 Users	289/1,437
Lan WorkGroup-5/10/20 Users	1,125/1,866/2,613
NetWare for Mac v3.12 200 Users/4.01	685/851
Branch Link Router/Enterprise Router	765/1,902
NetWare NFS/Gateway Bundle	2,861
NetWare NFS Service for NW4.1	2,239
Global MHS v2.0 20/50/100 Users	358/648/1,064
MHS v1.5 Network Edition 10/50/100 Users	140/504/733
MHS Multi-Network Edition 10 Users	140

E-Mail

cc:MAIL Desktop-Any Platform	72
Lan Systems License 10 users/50 Users	632/2,883
Mobile for DOS or MAC	150
Router/Fax	95/1,459
Link to SMTP v2.0/Link to UUCP	2,473/370
MICROSOFT PC Mail Server + 10 Users	485
PC Mail 5/20/100 Users	273/930/3,633
MHS Gateway/PROFS	708/3,405
SMTP/X400/Fax Gateway	3,173/3,194/1,419

Network Utilities

SYMANTEC Anti-Virus for NetWare 10/25	605/1,378
CHEYENNE InocuLAN 20/250 workstations	326/655
InocuLAN Option 25/100/250/1000	133/190/260/325
InocuLAN Option v4.0 for ARCserve 6 Workgrp	122
InocuLAN Option v4.0 for ARCserve 6 Enterprise	307
FRYE Early Warning System or Lan Directory	350
INTEL LanDesk Virus Protect (Single)	696
LanDesk Virus Protect 4-pk/20-pk	2,070/6,757
MICROTEST Lan Assist or Map Assist	211
ONTRACK Data Recovery NetWare	214
PALINDROME Prepare! Disaster Recovery SW	727
SYMANTEC Norton Admin. 5/10 Users	247/438
Norton Admin. 25/50/100 Users	1,068/2,028/3,680

ARTISOFT Peer-to-Peer Networking

ARTISOFT LANtastic 6.0 Network Starter Kit	244
LANtastic 6.0 Add-On Kit Coax/10BT	135
LANtastic 6.0 Software Single/5/10 User	99/354/637
Noderunner/SI Coax or TP/Combo	109/129
Power Suite Starter Kit 2 Users	412

Server Mirroring

VINCA Standby Server ISA/EISA	1,363/1,603
Standby Server 32 w/ Autoswitch ISA/EISA	2,089/2,350
Campus Standby Server Fiber EISA/PCI	2,350/1,928

Windows NT Solutions

MICROSOFT Windows NT Server	650
Windows NT Workstation	315
Windows NT Server w/10 Clients	1,034
NETSCAPE Communication Server for Windows NT	456
Commerce Server/Mail Server	1,193/490
CHEYENNE Arcserve for Windows NT, Single Svr	484
Arcserve for Windows NT, Enterprise Edition	849
CONNER MS4000 4 GB INT W/ Backup Exec NT	631
MS4000 4 GB EXT W/ Backup Exec NT	757
ARCADA Backup Exec Single Svr/Enterprise	404/798
O'REILLY & ASSO. Website for Windows NT	289

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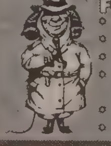

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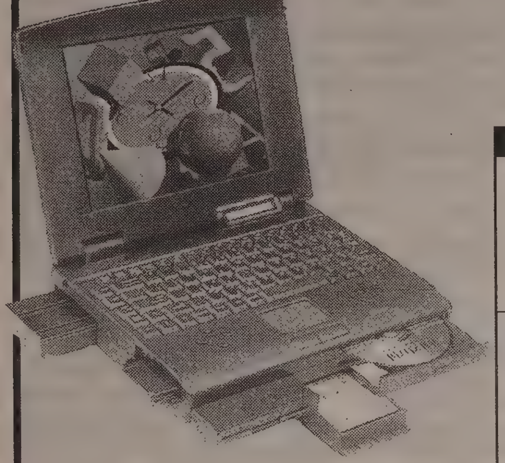

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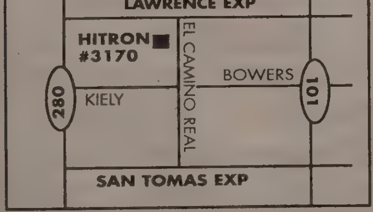

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only and not to be used as the basis for financial decisions.

•**Bernard Aboba, systems integrator at Microsoft and author of *The BMUG Guide to Bulletin Boards and Beyond*:** OK, here ya go: Given the enormous increase in spamming and junk email over the last year, I predict that 1996 will truly be The Year of the Spam. This will include the first video spams, and the first universal email spam (where almost everyone on the Internet is a recipient).

The World Wide Web will be conclusively linked to depletion of the ozone layer. Environmentalists will hasten to condemn the Web, albeit from a very chic Web page.

I predict that the passage of the Communications Decency Act will eventually be seen as the 1990s version of Prohibition. Over the next decade, we'll see Internet speakeasies, backroom gathering places where adults will be able to view now-prohibited newsgroups. The joints will offer other prohibited pleasures, such as smoking.

By this time next year, video and voice will be the hot new thing on the net. Local telephone companies will hasten to accept calls made by people at their "net phones," and the use of video applications like CUSeeMe will explode. However, because of the Communications Decency Act, there will be nothing interesting to see or view.

According to many vendors, having both Windows and Mac versions is a plus for the Mac, especially with business applications. This is seldom mentioned by writers eager to give the Mac a black eye.

In 1996, we will see yet more Internet demographic surveys. The results of the surveys will continue to be completely contradictory. One survey will conclude that 90% of all Internet traffic is generated by the same 493 people, who apparently are connected to the net day and night. They are generating hits on popular Web pages, in order to receive compensation from the page creators, who get to charge more for their ads.

Internet frenzy reaches new heights. We will know that things are at their zenith when the entire Nixon Library goes up on the Web, including the unedited Watergate tapes, done via Progressive Networks Inc.'s RealAudio.

•***Fred Swan, BMUG board chairperson and senior product marketing manager at FWB Inc:*** Apple stock will go up. Buy now.

With the widespread adoption of packet writing and continued price decreases, CD-recordable drives will become extremely popular and easy to use. The drives will be used not just for data distribution and title development, but for routine desktop backup and archiving. [CD-R drives let people

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Tech Power 486VLB Motherboard
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Intel Pentium Series CPU
Intel Triton PCI Chipset
Sound Blaster 16 on board
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MS-Ser mouse 400 DPI
KeyTronic 104 Enhanced keyboard
Mid Tower Case w/230W P/S.
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- **ATI Graphic March 64 w/1MB DRAM**
- **Crystal 16-bit Sound Card**
- **Delux Mid-Tower Case w/250W P.S.**
- **Focus FK-6200 Soft Touch Keyboard w/Pad**
- **DigiView 15" Digital Control Monitor**
- **Logitech 3-Buttom Mouse Man**
- MS Windows 95 or DOS 6.22 & WIN 3.1
- **Coach 2-way 160W Sterio Speakers**

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DigiView 17" Color Monitor	**$285**
ATI March 64 2MB DRAM	**$50**
28.8 Internal Fax/ Modem	**$119**

TW-B System $1549
Intel Endeavor MB

- Intel Endeavor Motherboard
- Piplined Burst 256K Sram
- Intel P5 CPU 133MHz
- 8MB RAM 72pin 70ns
- Teac 1.44 Floppy Drive
- 1.08GB EIDE Hard Drive
- **Quard Speed CD-ROM**
- **Diamond Stealth 64 w/1MB DRAM**
- **Sound Blaster 16bit Sound Card**
- **Mid-Tower Case w/250W P.S.**
- **Focus FK-6200 Soft Touch Keyboard w/Pad**
- 15" Non-Interlaced Color Monitor
- **Logitech 3-Buttom Mouse Man**
- MS Windows 95 or DOS 6.22 & WIN 3.1
- **Coach 2-way 80W Speakers**

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- **Trident 9440 PCI w/1MB DRAM**
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- **Trident 9440 PCI w/1MB DRAM**
- **16-bit Sound Card**
- **Mini Tower Case w/250W P.S.**
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- **14" Non-Interlaced Color Monitor**
- **MIcrosoft Compatible Mouse**
- MS Windows 95 or DOS 6.22 & WIN 3.1
- **Coach 2-way 80W Speakers**

UPGRADES

DigiView 15" 1508 Color Monitor	**$140**
Diamond Stealth 64 1MB DRAM	**$65**
28.8 Internal Fax Modem	**$119**

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Number 9

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Imagine 128 4MB PCI	$525

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.1742/2742A SCSI	$185/295
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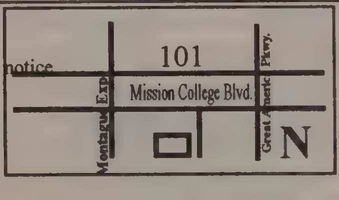

make do-it-yourself CD-ROMs.]

A major contender in the PC clone market will see their market share decline dramatically. The slack will be taken up by Hewlett-Packard, although Apple will also benefit. In addition, IBM will sell personal computers bundled with Apple's Mac OS, perhaps as an option.

The 49ers will return to the Super Bowl (and win), Liz Taylor will return to the altar (where she always loses), and the Democrats will return to the White House (where nobody ever wins). [As you can see, Fred's first noncomputer prediction has already bit the dust. Better luck next time, Fred and 'Niners.]

Tip City

Here are a couple tips off of Planet BMUG, our online service.

•A big hit with the BMUG Personal Digital Assistant special interest group is the new v2.0 of the Newton operating system. Its performance improvement is like night and day, according to members of the group. A feature of the updated OS is a new handwriting recognizer, which operates quite a bit differently than the older flavor.

The first recognizer learned your handwriting by watching your habits when inputting words. The Newton tries to match the words you're writing with items in its dictionaries; most of them are built-in lists of cities, names, and other commonly used words. You can also add words to a personal list.

In v2.0, there are two distinct handwriting codes: one divides input into cursive characters with connected letters, and the other handles printed separated characters.

The cursive recognizer is similar to the older version, but has been beefed up with speedier code and more capable recognition. By tapping on a word and hitting the Try Letters command, you can invoke the cursive recognizer.

The new printing recognizer evaluates each letter of a word, one by one. For the system to work, the letters can't touch each other. In addition, it doesn't try to learn the printing habits for words in the lists. Just as some text search engines create indexes to speed up searching, others check the words in files one by one. When checking a printed word, each search is a novel experience for the recognizer. Its short-term memory is confined to the word at hand. But that isn't bad in this case!

Mac users have more time to invest in computing and less in kvetching. Or less in computing and more with the family.

If you want to avoid any of the handwriting input hassles, Newton 2.0 will let you attach a keyboard to the serial port. The unit is small, only a couple of inches longer than the MessagePad 120, but it's fast and efficient. It will cost about $69.

• The WindowShade control panel in System 7 is a very convenient way of cleaning up windows on the desktop. With either one, two or three mouse clicks, you can set it to pull a window up into its titlebar, or down again; it works with or without a modifier key.

You might not know that in the Finder, WindowShade also can operate on inactive windows by holding down the cloverleaf Command key while clicking on the titlebar. Longtime Mac users know that an inactive window can also be moved by holding down the Command key while click-dragging a window's title bar. ■

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What Is BMUG?

BMUG is an educational, nonprofit, consumer advocacy group organized to share information and provide critical direction to users and developers in the computer community worldwide. It is an independent advocate, not affiliated with any manufacturer, delivering trustworthy information and useful products.

Like any growing organization, it is many different things to its fifteen thousand international members. BMUG supports many special interest groups (SIGs), 18-line Planet BMUG, and 11-line BMUG Boston BBSes, a software library, weekly meetings, publications, and much more. BMUG also puts out a semi-annual 500-page book that we call our "newsletter."

Our motto continues to be: *We're in the business of giving away information.*

Come and join in the dialogue at the BMUG main meeting every Thursday evening, 6:30–9:30 (or whenever we finish), on the UC campus. BMUG West and BMUG South are monthly meetings held in San Francisco and San Jose. Check the Announcement Line at (510)549-2684 ext. 8.

The BMUG Office, 2055 Center Street (a half block from the BART station), is open to the public 8:30 am–4:30 pm. Please come by, say hello, and meet other members.

The BMUG Helpline provides volunteer technical assistance and telephonic hand-holding for our members. If your question can't be answered on the spot, we try to get you in touch with someone who can help. Improve your Macintosh education and help others by becoming a Helpline volunteer!

BMUG has one of the most up-to-date, comprehensive software libraries around with hundreds of disks filled with the latest versions of public domain or shareware programs. BMUG also produces CD-ROM collections, including the digital video *TV-ROM ™Too*, and the *BMUG PD-ROM.*

Planet BMUG and BMUG Boston are graphical user interface FirstClass bulletin board systems, offering the latest in shareware, as well as news, private email, rumors, etc. With our 18-line capability, you can have access to BMUG almost 24 hours a day. It's easy to use, fun, and a great resource.

BMUG can be found on most online services, including e•World. BMUG can also be reached through the Internet network at *UG0001@applelink.apple.com* .

To get some further information about BMUG please write to: BMUG, 1442A Walnut Street, #62, Berkeley, CA 94709. If you prefer to phone our business office, call (510)549-BMUG, or fax (510)849-9026.

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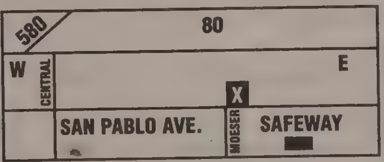

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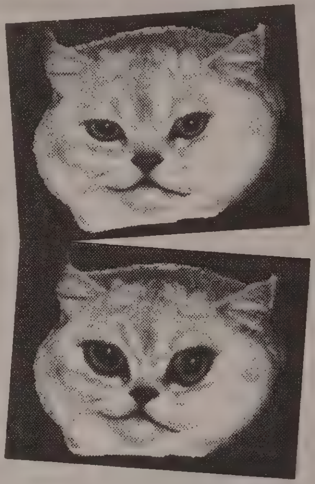

over time and output as still images or movies (AVIs, or FLCs in Windows or QuickTime on the Mac). Flo' offers immediate feedback, the ability to instantly undo any change, as well as the ability to change any number of areas simultaneously.

"Remember creating funny faces by pressing images onto Silly Putty and tugging on it? But if you tugged on it too many times, the image would get destroyed. That never happens to digital images when you use Flo' products for distortion," says RoseAnn Alspektor, president and CEO of the Valis Group. "Flo' 2.0…actually turns images into nondestructible, infinitely editable digital rubber so you can continue to stretch, reshape, distort, and animate images organically without degrading the original image quality." (The Valis Group, P.O. Box 831, Tiburon, CA 94920-0831. 415/435-5404)

Pyromania Volume 1
Pyromania Volume 2

Published By: Visual Concept Entertainment
Price: $199 each
For: PC and Macintosh
Reviewed By: Douglas J. Nakakihara

Creating believable explosions with computer graphics is difficult, if not impossible. However, with VCE's Pyromania it's as easy as mapping an image onto a polygon. These actual physical effects were scanned from 35mm film at high resolution and then scaled down to video resolution. The Macintosh version uses PICT format images while the PC version uses TARGA. Amiga owners should opt for the PC version.

Volume 1 has nineteen image sequences covering various explosions and fire effects. Some effects are gravity independent for use in outer space environment shots. I absolutely love the blue shockwave explosion! This CD-ROM also has several "fire wipes" that are meant to be used as wipe transitions. Alpha channel information is embedded in the image files, although I would have preferred separate files. There is an interesting "film burn" effect too. Volume 2 adds more variations of fire and explosions, as well as including some sparks, fireworks, and smoke effects. A few of the fire sequences will even loop continuously! Very cool.

VCE's film credits include major flicks like *Return of the Jedi* and *Robocop*. Pyromania is already being used on network TV shows. Just last night, I'm pretty sure I saw the film burn effect on a USA Channel commercial.

The manual includes detailed exercises on how to use the images with PC and Macintosh image processing applications. Also included are example FLI (PC) or QuickTime (Macintosh) animations. Spectacular. Fun. Exciting. Easy to use. The Pyromania CDs make a valuable addition to the library of anyone who needs these types of effects. (Visual Concept Entertainment, P.O. Box 921226, Sylmar, CA 91392-1226. 818/367-9187)

Macintosh Software Reviews

SmartSketch

Published By: FutureWave Software
For: Macintosh and Windows
List Price: $69.95
Reviewed By: Matthew Leeds

Go out and buy this program. Now for the details. If you've ever tried drawing on a computer, most likely you will find the same user interface on a variety of programs. Paint programs are useless for drawing since they rely on bitmaps (the final result is too low-res). Drawing programs are too difficult to use. They have arcane tools like bezier curve handles that defy logic for the casual user. SmartSketch is the first drawing program I've used that offers tools for doing what I want to do easily and quickly.

I'll give you a few examples. To make a square with a circle cut out of it, you draw a square, draw a circle on top of it, then delete the circle. Can't draw a square or circle? Draw the rough shape and SmartSketch will clean it up for you. Want to reshape an object? Just grab a portion and drag. Painting the inside of an almost-closed shape but don't want the paint to leak out? No problem, just tell the fill tool to ignore "holes."

It also provides automatic antialiasing, kerning and tracking of text, object locking, grouping (if you need it), and more features than this space allows me to describe.

SmartSketch comes with an excellent online tutorial that walks you through the main features of the program in an hour or so. It also includes a library of over 500 clip-art images. It imports and exports PICT, EPS, and DXF. While I mostly used the Macintosh version, I also briefly tested the Windows (3.1 or 95) version and found the same ease of use on both platforms.

Three seasoned software veterans founded FutureWave: Charlie Jackson (Silicon Beach Software), Jonathan Gay (Aldus—Intellidraw), and Michelle Welsh (Aldus—SuperPaint). They have created a remarkable first product that leaves me eager to see what else they have planned. No review can give full justice to the

continued on page 306

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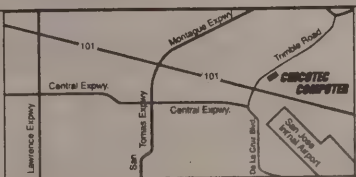

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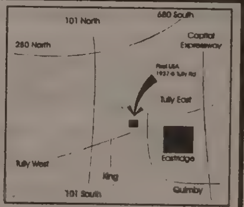

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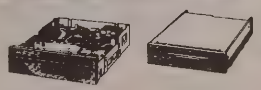

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Sporter Modem VI & Fax 28.8 V.34 w/Voice (External)	$228

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2 Buttons Serial	$8
Dexxa Serial	$13
MouseMan Serial	$18
First Serial (Retail Box)	$23
First TrackBall Serial (Retail Box)	$43
TrackMan Combo Serial (Retail Box)	$58
CyberMan 3D Controller (Retail Box)	$48
WingMan Joystick (Retail Box)	$26
WingMan Joystick Extreme (Retail Box)	$43

Microsoft®

Microsoft Serial Mouse (Ergonomic) OEM w/system	$23
Microsoft Serial Mouse (Ergonomic) Retail Box	$38

ACCESSORIES

Colorado 350Mb Tape Back-up (Retail Box)	$98
Conner 420Mb Tape Back-up (Retail Box)	$128
Conner 800Mb Tape Back-up (Retail Box)	$158
Conner 1.7GB Tape Back-up (Retail Box)	$198
Conner 3.2GB Tape Back-up (Retail Box)	$268
CPU Cooling Kit w/heatsink & fan (All Pentium)	$4
486 CPU Cooling kit heatsink & fan (Ball Bearing)	$8
P5 CPU Cooling Kit heatsink & fan (Ball Bearing)	$13
Speakers 4W	$5
Speaker EAB401P Panasonic	$48
Speaker EAB710P Panasonic	$88
MS-DOS 6.22 Full Version w/system only	$35
Windows 3.11 Full Version w/system only	$45
Windows 3.11 for workgroup Full Version w/system only	$55
Windows 95 (CD-ROM) Full Version w/system only	$98

CREATIVE

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Sound Blaster 16 Basic IDE (OEM)	$78
Sound Blaster Value IDE 32 P&P (Retail Box)	$158
Sound Blaster AWE 32 P&P (Retail Box)	$228
Phone Blaster w/speaker (Retail Box)	$188
Sound Blaster Value CD 4X (Retail Box)	$268
Sound Blaster Discovery CD 4X P&P (Retail Box)	$298
Sound Blaster Performance 6X	$388
Other	$Call

CASE & POWER SUPPLY

External Half-Height SCSI Case (3.5") with 40 Watts	$58
External Half-Height IDE Case (3.5") with 40 Watts	$88
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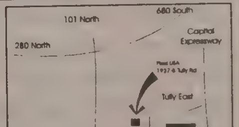

·Price, term, availability subject to change without notice. Some items are limited quantity. Not responsible for typos. Cash discount applies to currency only (not checks, money order or credit cards).

Resources

Calendar Of Events

Conferences, Shows, Special Events

March

March 4–6 Inside EDI Conference. San Francisco. MultiCorp. Contact: (214)424-1508 or *inside.edi@multicorp.com* or *http://www.multicorp.com/inside.edi* .

March 4–6 QuarkXPress Conference. San Francisco. Thunder Lizard Productions. Contact: 1-800-221-3806.

March 5–7 intermediaWORLD '96 Conference. San Francisco. Reed Exhibition Companies. Contact: (203)840-5634.

March 8–9 California Genealogical Society's Family History Fair. San Francisco. California Genealogical Society. Contact: (415)777-9936.

March 9 Computer Show And Sale. Santa Rosa. MarketPro. Contact: 1-800-708-7555.

March 9–10 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or *http://robertaustin.com* .

March 9–12 South By Southwest Multimedia Festival. Austin, TX. SXSW Multimedia. Contact: (512)467-7979 or *72662.2465@compuserve.com* or *http://sxsw.com/sxsw* .

March 11 Multimedia Now: Publisher Strategies For Competing And Winning Conference. New York. *PublishersWeekly, Book Publishing Report, Multimedia Business Report.* Contact: (203)834-0033, ext. 124 or *simbainfo@simbanet.com* .

March 16–17 Computer Show And Sale. Vallejo. MarketPro. Contact: 1-800-708-7555.

March 18–19 Mobile Forum: A Technologic Conference. Burlingame. Technologic Partners. Contact: (212)343-1900.

March 18–22 Printed Circuit Board Design Conference. Santa Clara. Miller Freeman, Inc. Contact: Yolanda White-King, (415)905-4994.

March 19–23 Technology And Persons With Disabilities Conference. Los Angeles. CSU Northridge. Contact: Dr. Harry J. Murphy, (818)885-2578 or *ltm@csun.edu* .

March 21 Joe's Digital Diner: Michael Johnson Presentation. San Francisco. San Francisco Digital Media Center. Contact: (415)824-9394.

March 21–23 10th Annual American Bar Association TECHSHOW. Chicago. American Bar Association. Contact: (312)988-5619 or *lpm@attmail.com* .

March 24 Computer Show And Sale. San Jose. MarketPro. Contact: 1-800-708-7555.

March 25–27 Internet And Electronic Commerce Conference And Expo. New York. Expocon. Contact: (203)256-4700, ext. 100 or *iec@expocon.com* or *http://www.expocon.com* .

March 25–29 Software Development '96 Conference And Exhibition. San Francisco. Software Development. Contact: (214)245-8874.

March 26–28 Web Design And Development '96 Conference. San Francisco. Software Development Conference & Show Group. Contact: (415)905-2702.

March 29 Multimedia Pioneers Lecture: Eric McLuhan. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

March 30–April 3 IEEE 1996 Virtual Reality Annual International Symposium. Santa Clara. IEEE. Contact: (415)604-4524 or 604-4985.

April

April 2–6 PC-Vietnam International Computing Trade Expo. Hanoi, Vietnam. Expo Corporation. Contact: Alexander Glos, (407)851-7222 or *74204.2576@compuserve.com* .

April 6 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-243-7041 or *http://robertaustin.com* .

April 7 Computer, Ham Radio, Electronics Swap. Las Positas College, Livermore. Livermore Amateur Radio Klub. Contact: (510)447-3857 (eve.) or (510)783-2803 (day).

April 8 The Internet And World Wide Web Information Conference. Pleasanton. Rockhurst College Continuing Education Center, Inc. Contact: 1-800-682-5078.

April 11–12 Oak Ridge Conference: New And Advanced Technology For The Clinical Laboratory. San Jose. American Association for Clinical Chemistry. Contact: 1-800-892-1400.

No-Cost, State-Funded AutoCAD And MicroStation Training

AutoCAD and MicroStation training is available through the Continental Training Center at no cost to qualified individuals. This training is funded by the California State Employment Training Panel, and is intended to assist unemployed designers, drafters, and engineers to return to a workplace that relies on CAD technology. Qualified individuals must be receiving California unemployment compensation or have exhausted a California benefits claim in the last 24 months; have one year recent experience in the design industry, or sufficient manual drafting training or work-related experience; be at least eighteen years of age; successfully pass an assessment test; provide proof of eligibility for employment in the US; and be willing to acquire a full-time position in California in the design industry, and stay in that position for at least three months after training. For more information, including starting dates, call (510)680-2875.

UC Extension Courses Online On America Online

University of California Extension and America Online have entered an agreement to offer two dozen UC Extension courses via AOL. This will allow AOL members to participate in an accredited distance learning program. Specially designed courses have been developed by UC Extension's Center for Media and Independent Learning. AOL members can find more information or register for classes online at keyword: UCX. Course offerings include Views of the Absolute in World Religions, Critical Thinking, The Art of Film, a certificate program in Hazardous Materials Management, computer science, writing, and cultural diversity. For more information contact CMIL at (510)642-4124, or call 1-800-827-6364 to obtain AOL software.

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Calendar Of Events *continued...*

April 13–14 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or *http://robertaustin.com* .

April 15–19 DB/EXPO '96. San Francisco. Blenheim NDN. Contact: 1-800-2DB-EXPO.

April 22–23 PAAM96—The First International Conference And Exhibition On The Practical Application Of Intelligent Agents And Multi-Agent Technology. London, UK. Contact: Al Roth, 011 44 125 335 8081, *agents@pap.com*, *http://www.demon.co.uk/ar/PAAM96/index.html* .

April 29–May 3 PCI Spring Developers' Conference And Expo. San Jose. Annabooks Conferences. Contact: 1-800-462-1042 or *cgstockton@aol.com* .

April 30–May 1 Infosec '96 Exhibition And Conference For Network Security Solutions. London, UK. Network Security. Contact: 011 44 (0)181 910 7821 or *a.verhoeven@elsevier.co.uk* .

Classes, Seminars, Workshops

March

March 2–3 Digital Video Editing For Windows Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 2–3 Intro To Adobe After Effects Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 2–23 Advanced Hands-On Interface Design Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 4 Complete On-Line Novell CNA Training Class. Berkeley. Cyber State University. Contact: (510)253-TREK.

March 4–7 AutoCAD Level 1 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 4–8 Open GL Programming 1 Class. Mountain View. Silicon Graphics. Contact: 1-800-800-4SGI, ext. 4.

March 4–April 1 Photoshop Intensive Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 4–April 3 Advanced Digital Photography Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 5 Accounting Software Comparison Class. San Francisco. Lindquist, von Husen & Joyce, CPAs. Contact: (415)905-5499.

March 5 Doing Business On The Internet Seminar. San Francisco. Network Data Solutions. Contact: Marvin Tanner, (510)538-2630.

March 5 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

March 5 Windows 3.1 Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

March 5 Mac Basics I Class. San Francisco. Media Alliance. Contact: (415) 546-6491.

March 5–8 Eagle Point Software AutoCAD And MicroStation Winter Training Class. Oakland. Eagle Point Software. Contact: (319)556-8392.

March 5–8 Elementary AutoCAD Class. Sausalito. The ACADemy. Call: (415)331-9466.

March 5–8 Intro To Client/Server Computing Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

March 5–8 Oracle Forms Hands-On Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

March 5–26 VRML: The Virtual Reality Modeling Language For The World Wide Web Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 6 Beginning Quattro Pro For Windows 6.0 Class. Oakland. Inacom Information Systems. Contact: (510)444-5700, ext. 188 or 173.

March 6 Doing Business On The Internet Free Seminar. Hayward. Network Data Solutions. Contact: (510)538-2630.

March 6 Intro To Windows 95 Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 6 Networking Windows 95 Seminar. Hayward. Network Data Solutions. Contact: (510)538-2630.

March 6–7 PC Repair 2-Day Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

March 6–8 Avid: Intro To Media Composer Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 6–8 Electronics For Non-Electronic Engineers Class. San Jose. Tustin Technical Institute, Inc. Contact: (805)682-7171.

March 6–April 24 Law For Multimedia Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 7 Adobe Illustrator I Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 7 Beginning MS Access 2.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 7 Doing Business On The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

March 7 Microsoft Word I Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 7 SGML: Who Needs It? Presentation. San Jose. Computer Literacy Bookshop. Contact: (408)435-1118 or *http://www.clbooks.com/* .

March 7 WordPerfect For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

March 8 A+ Certification Hands-On Preparation Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

March 8 Intermediate MS Access 2.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 8 MS Office 4.2 Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 8 Paradox 4.5/5.0 For DOS/Win Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 8 Quattro Pro 6.0 For DOS/Win Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 8 Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

March 8–9 Windows 95 Administration

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"N5100 Media - Great price, Impressive performance, full multimedia." **PC WORLD, January 1996**

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"Strong performance and well-chosen components make this an attractive corporate PC." **PC MAGAZINE, October**

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- Logitech 2-button Mouse w/Pad
- MaxiSwitch NOVA 101 Keyboard
- Mini tower with Power Supply

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NetWare 3.12 100 user	$2,035
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NetWare 4.1 50 user	$1,594
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Seminar. San Francisco. Network Data Solutions. Contact: Marvin Tanner, (510)538-2630.

March 8–April 26 2D Animating With Director Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 9 Advanced Word 6.0 For Windows Class. San Mateo. Kindly Computer, Contact: (415)508-0354.

March 9 Business Resources On The Internet Class. San Francisco. UC Berkeley Extension. Contact: (510)642-4111.

March 9 Create Your Own Web Page Class. San Francisco. MentorNet. Contact: (415)664-1091.

March 9 Mac Basics II Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 9–10 Digital Audio Editing With ProTools Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 9–10 Moviemaking With QuickTime Class. San Francisco. San Francisco Digital Media Center and the Film Arts Foundation. Contact: (415)824-9394.

March 9–10 Photoshop For Artists Class. Berkeley. Kala Institute. Contact: (510)549-2977.

March 9–16 AutoCAD Release 13 Update Training Class. Sausalito. The ACADemy. Call: (415)331-9466.

March 9–17 Applied Graphic Design For Multimedia Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 9–24 Making Video Work In Multimedia Applications Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 10–17 Basic HTML Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 10–17 Publishing On The World Wide Web Class. San Francisco. Media Alliance. Contact: (415)469-8271.

March 11 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

March 11 Complete On-Line Novell CNA Training Class. Berkeley. Cyber State University. Contact: (510)253-TREK.

March 11 Excel For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

March 11 Finding It On The Internet Seminar. Monterey. SkillPath Seminars. Contact: 1-800-873-7545.

March 11 PageMaker I Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 11 PowerPoint 4.0 Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 11 WordPerfect 6.0/6.1 For DOS/Windows Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 11 & 13 Writing For Multimedia Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 11–14 AutoCAD Level II Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 11–15 IRIS Performer Programming Class. Mountain View. Silicon Graphics. Contact: 1-800-800-4SGI, ext. 4.

March 11–15 Network Administration Class. Mountain View. Silicon Graphics. Contact: 1-800-800-4SGI, ext. 4.

March 11–15 Open GL Programming 2 Class. Mountain View. Silicon Graphics. Contact: 1-800-800-4SGI, ext. 4.

March 11–15 System Administration Class. Mountain View. Silicon Graphics. Contact: 1-800-800-4SGI, ext. 4.

March 12 Doing Business On The Internet Class. San Francisco. UC Berkeley Extension. Contact: (510)642-4111.

March 12 Finding It On The Internet Seminar. Palo Alto. SkillPath Seminars. Contact: 1-800-873-7545.

March 12 Internet 101 Seminar. San Francisco. Media Alliance. Contact: (415)469-8271.

March 12 Lotus For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

March 12 Working Smarter With Groupware Seminar. San Francisco. Network Data Solutions. Contact: (510)538-2630.

March 12–14 Intro To Adobe Photoshop For Graphic And Fine Artists Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 12–14 Multimedia ToolBook v3 For Windows Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 12–15 Hands-On Internetworking With TCP/IP Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

March 12–15 Wireless Networks Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

March 13 Avid: Media Composer Editing Tips And Techniques Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 13 Beginning Access 2.0 Class. Oakland. Inacom Information Systems. Contact: (510)444-5700, ext. 188 or 173.

March 13 Doing Business On The Internet Class. San Ramon. UC Berkeley Extension. Contact: (510)642-4111.

March 13 Project 4.0 Win/3.0 Mac Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 13 Using The Internet Part 3, Resource Tools Class. San Francisco. UC Berkeley Extension. Contact: (510)642-4111.

March 13 Word 7.0 Win/Mac Upgrade Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 13–27 Hands-On Internet Class. San Francisco. San Francisco Digital Media Center and The WELL. Contact: (415)824-9394.

March 14 Adobe Illustrator II Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 14 Beginning Word 6.0 For Windows Class. San Mateo. Kindly Computer. Contact: (415)508-0354.

March 14 Intro To MS-DOS 5.0/6.2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 14 Microsoft Word II Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 14 MS DOS 6.2 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 14 New Paradigm Business And The Web Class. San Francisco. San Francisco Digital Media Center. Contact: (415)824-9394.

March 14–15 Avid: Media Composer—Integrating Third-Party Graphics Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 15 MS Windows 3.1 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 15 RealWorld 6.6 For DOS/Novell Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 15–17 Home Movies Intensive Workshop. San Francisco. San Francisco Digital Media Center. Contact: (415)824-9394.

March 15–29 Understanding Media: The Individual And Society Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 15–May 17 Intro To C++ For Multimedia Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

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March 16 Graphic Design For The World Wide Web Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 16 Principals Of Networks Presentation. San Francisco. Network Data Solutions. Contact: (510)538-2630.

March 16 Technology, Creativity, And Laser Copies Demonstration And Lecture. Berkeley. Kala Institute. Contact: (510)549-2977.

March 16–17 Hands-On Interactive Multimedia Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 16 & 23 Multimedia In Sales And Marketing Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 16–May 4 Software For The Graphic Arts: Photoshop Class. Oakland. Laney College, Graphic Arts Department. Contact: Bill Leal, (510)464-3263.

March 17 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

March 17 Exploring The Internet: A Live Demo. San Francisco. Media Alliance. Contact: (415)546-6491.

March 18 4-Day Novel CNA Certification Preparation Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

March 18 Excel 5.0 Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 18 PageMaker II Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 18–19 Intro To Object PAL 5.0 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 18–21 AutoCAD 3D Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 18–22 3D Animation With Autodesk 3D Studio Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 18–22 Intro To IRIX Class. Mountain View. Silicon Graphics. Contact: 1-800-800-4SGI, ext. 4.

March 18–22 Network Administration Class. Mountain View. Silicon Graphics. Contact: 1-800-800-4SGI, ext. 4.

March 18–April 1 Do-It-Yourself Design Workshop For Making Web Home Pages. San Francisco. San Francisco Digital Media Center. Contact: (415)824-9394.

March 19 Doing Business On The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

March 19 Intro To Windows 3.1 Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 19 Lotus 1-2-3 4.0/5.0 For DOS/Win Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 19 Using EDI And ISDN Seminar. San Francisco. Network Data Solutions. Contact: (510)538-2630.

March 19–22 Advanced AutoCAD Class. Sausalito. The ACADemy. Call: (415)331-9466.

March 19–22 Relational Databases: Design, Tools, And Techniques Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

March 19–26 Basic HTML Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 19–26 Interaction Design Class. San Francisco. San Francisco Digital Media Center. Contact: (415)824-9394.

March 19–26 Intro To Desktop Production Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 19–26 Publishing On The World Wide Web Class. San Francisco. Media Alliance. Contact: (415)469-8271.

March 19–May 21 Multimedia Business Strategy And Planning Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 20 Access 2.0 Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 20 Basics Of Local Area Networks With NetWare 4.1 Free Seminar. Hayward. Network Data Solutions. Contact: (510)538-2630.

March 20 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

March 20 QuarkXPress I Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 20 Using The Internet, UNIX, And Client/Server Technologies Free Seminar. Hayward. Network Data Solutions. Contact: (510)538-2630.

March 20–22 Intro To Delphi Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 20–May 22 Advanced Graphics And Human Interface For Multimedia On The PC Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 21 Beginning MS Word 6.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 21 Mac Basics I Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 21 Microsoft Excel I Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 21 Packet Communication Presentation By Dr. Robert Metcalfe. San Jose. Computer Literacy Bookshop. Contact: (408)435-1118 or *http://www.clbooks.com/* .

March 21 Word 6.0 Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 21–22 HP Laser Printer Repair Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

March 21–May 23 Advanced QuickTime And Interactive Video Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 22 FileMaker Pro I Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 23 Implementing Windows NT Server 3.51 Solutions Presentation. Hayward. Network Data Solutions. Contact: (510)538-2630.

March 23 Lotus Notes And The Internet Presentation. Hayward. Network Data Solutions. Contact: (510)538-2630.

March 23 Using The Internet Part 3, Resource Tools Class. Berkeley. UC Berkeley Extension. Contact: (510)642-4111.

March 23–24 Intro To Multimedia Authoring For The World Wide Web Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 23 & 30 Intro To Adobe Illustrator Class. Berkeley. Kala Institute. Contact: (510)549-2977.

March 25–27 Getting Started With Macromedia Director Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 25–27 Intro To Access Basic 2.0 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 25–27 Intro To Visual Basic 3.0 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

March 25–29 Open Inventor Class. Mountain View. Silicon Graphics. Contact: 1-800-800-4SGI, ext. 4.

March 25–29 Real Time Programming Class.

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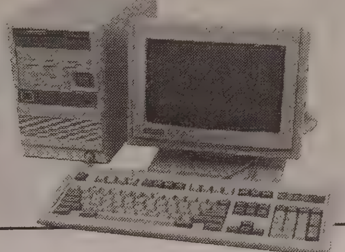

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March 25–29 System Administration Class. Mountain View. Silicon Graphics. Contact: 1-800-800-4SGI, ext. 4.

March 25–April 1 Pre-Press On The Mac Class. San Francisco. Media Alliance. Contact: (415)546-6491.

March 26 Basics Of Local Area Networks Seminar. San Francisco. Network Data Solutions. Contact: (510)538-2630.

March 26 Beginning Excel For Windows Class. San Mateo. Kindly Computer. Contact: (415)508-0354.

March 26–27 Hands-On TCP/IP For NetWare Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

March 26–29 Advanced PC Configuration, Troubleshooting, And Data Recovery Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

March 26–April 23 Installation And Management Of World Wide Web Servers Class. San Francisco. UC Berkeley Extension. Contact: (510)642-4111.

March 27–29 Avid: Intro To Media Composer Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

March 27–29 Intro to 3D AutoCAD Class. Sausalito. The ACADemy. Call: (415)331-9466.

March 28 Beginning MS PowerPoint 4.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 28 Intermediate Word For Windows Class. San Mateo. Kindly Computer. Contact: (415)508-0354.

March 28 Intro To The Web Class. San Francisco. San Francisco Digital Media Center. Contact: (415)824-9394.

March 28 Selling Software Online Class. Berkeley. San Francisco. Contact: (510)642-4111.

March 28–29 Hands-On NetWare NFS Class. San Francisco. Learning Tree International. Contact: 1-800-843-8733.

March 28–29 Oracle Reports Hands-On Class. Santa Clara. Learning Tree International. Contact: 1-800-843-8733.

March 28–May 16 Online Journalism: Writing For The Internet Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 29 Advanced Word For Windows 6.0 Class. Oakland. Inacom Information Systems. Contact: (510)444-5700 ext. 188 or 173.

March 29 Intermediate MS PowerPoint 4.0 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

March 30 Computer Ergonomics: Save Yourself Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 30 Digital Storytelling: Personal Stories On The Web Class. San Francisco. San Francisco Digital Media Center. Contact: (415)824-9394.

March 30 Doing Business On The Internet Presentation. San Francisco. Network Data Solutions. Contact: (510)538-2630.

March 30 Networking Windows 95 Presentation. San Francisco. Network Data Solutions. Contact: (510)538-2630.

March 30 Sales And Marketing In Multimedia Publishing Class. San Francisco. SFSU Extended Education. Contact: (415)904-7700 or *http://msp.sfsu.edu* .

March 30 System 7 Workshop. San Francisco. Media Alliance. Contact: (415)546-6491.

MULTIMEDIA

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The major oversight is that there are no links from the movie scenes to the script. What this means is that if you watch a scene (and the movie looks surprisingly good on the computer; it's actually watchable, albeit a little smaller than at the average multiplex) and want to know what happens next, you're stuck with possibly scrolling through the script without a satisfactory result when attempting to find the appropriate text.

I'm almost ashamed to admit it, but I began to get annoyed that I couldn't watch the movie all the way through. If one could do that, it might also lead to other more interesting ways to access the other material. One of the things I've always wanted out of expanded interactive treatments of movies is to discover what the soundtrack is as the movie runs. When the movie is the interface, things could become a lot more interesting—and commercial. The links could be connected to far more than the music. Product placement, for example, could become an even more cutthroat affair than it is now.

The days of movie as interface are, for better or worse, still some way off in the future. In the meantime, the *Forrest Gump* CD-ROMs are a step towards "expanded" movies. Not a misstep, although not a full stride. ■

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RESOURCES:

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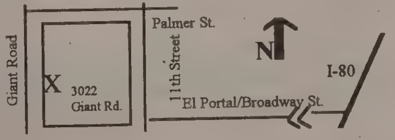

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New Products

continued from page 292

scope of this program, so check it out for yourself. A thirty-day demo copy of the Macintosh version is available on CIS, AOL, or at *ftp://wuarchive.westl.edu/systems/mac/info-mac/gst/grf/smart-sketch-demo.hqx* .

Speed Doubler

Published By: Connectix

List Price: $99

Reviewed By: Matthew Leeds

Speed Doubler does just what the name implies: It speeds up your Macintosh. Just how much of a speed increase you'll get, and what you have to provide to Speed Doubler in the way of system resources to get that increase depends on which Macintosh you use.

There are three components to Speed Doubler: Speed Emulator, Speed Access, and Speed Copy. Speed Emulator only works on Power Macs. It works on all existing Power Macs, and provides a dynamic compilation emulator for nonnative code. What this means is that instead of interpreting each 680x0 code instruction as it encounters it, over and over, as in the Apple emulator, the first time it encounters a nonnative instruction it compiles it into PowerPC code and caches it. The next time it encounters that bit of code it uses the cached PowerPC version.

Speed Access replaces System 7's disk cache algorithms with its own. Connectix claims that their methodology results in better performance. Better disk caching reduces hard drive accesses with data being pulled from memory instead of the hard drive, and can improve battery life on PowerBooks.

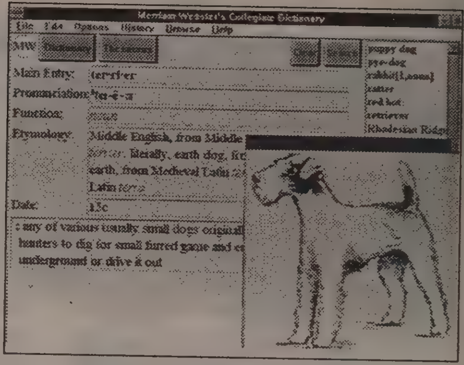
Speed Copy replaces the Finder's copy and trash routines with multithreaded ones. This lets you run the copy in the background and run multiple copy operations at once. Copies also occur faster as the Finder's buffer limit is bypassed.

FOR MACINTOSH & POWER MACINTOSH
Accelerate Your Mac with Just One Click
SPEED DOUBLER

Speed Doubler works well. It's easy to install, and has no user interface. There are some caveats. The install process sets your disk cache at one sixteenth of your total installed RAM. This may be more memory than you want to dedicate to a cache. Dynamic recompilation requires memory as well. While background copies are usually a good thing, you can get yourself into trouble. For example, start copying something to another drive, then dump it into the trash before the copy is done, then empty the trash. Not pretty. The alert message you get doesn't explain what the problem is.

There are some incompatibilities mentioned in the accompanying ReadMe file.

Connectix has a good track record for resolving these types of problems in future releases, and usually makes such upgrades available for free. While I didn't run exhaustive benchmarks, Speed Doubler clearly improves the performance of almost all Macs. Check it out. (Connectix Corp., 2655 Campus Dr., San Mateo, CA 94403. 415/571-5100)



Main Entry: terrier

Etymology: Middle English, from Middle … literally, earth dog, fr… earth, from Medieval Latin … Latin terra

Date: 15c

: any of various usually small dogs originall… hunters to dig for small furred game and e… underground or drive it out

CD Review

Collegiate Dictionary Deluxe Electronic Edition

Published By: Merriam-Webster

List Price: $79.95

Reviewed By: Matthew Leeds

As a writer I'm always on the lookout for tools that will make my task easier. As an ex-marketing person, I'm always fascinated by the frequent gulf between advertising and reality. As an employee at a large software developer, I'm always curious how other companies handle dual-platform development and releases. In other words, I had lots of reasons for wanting to explore a new dual-platform dictionary.

The Merriam-Webster dictionary on CD runs on either Macintosh or Windows platforms. It has more than 214,000 definitions, 35,000 etymologies, 75,000 dates of earliest recorded usage, a thesaurus, a puzzle solver for anagrams and crossword puzzles, a rhyming dictionary, quotations, and illustrations. In short, the feature list is very impressive.

I reviewed this product on a Mac. It's not much of a Mac product. There is no linkage to any word processing program short of cutting and pasting one word at a time (there is mention of a link under Windows). When installed, rather than placing its Preferences file in the Preferences folder, it writes an INI file into the folder that stores the application. To run, the application wants 5MB of RAM. You can install the entire package on your hard drive if you have about 25MB of available space, and when installed there it finds words very quickly. You can't copy any of the information it provides you; none of the fields are selectable.

This package has a lot of power. It needs to provide more access to that power. It also needs a serious diet: 5MB of RAM for a dictionary is way too much. Wait for the next release. (Merriam-Webster, Inc., 47 Federal St., P.O. Box 281, Springfield, MA 01102. 413/734-3134) ■

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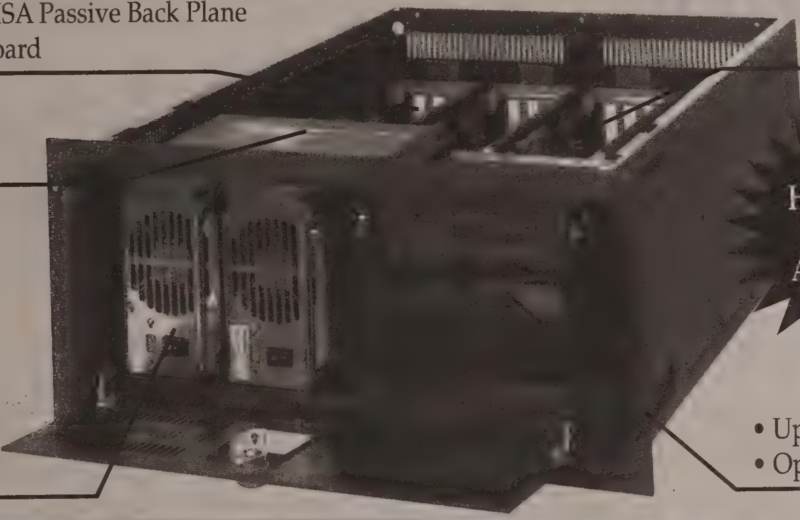
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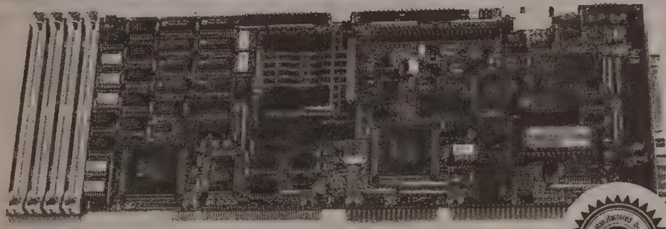

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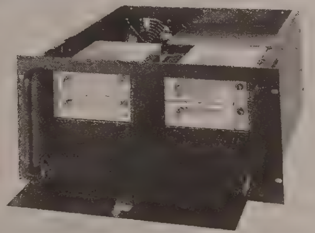

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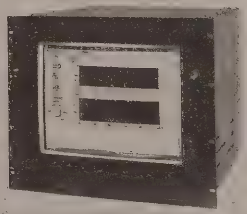

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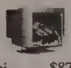

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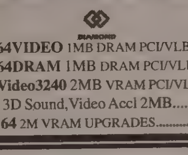

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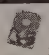

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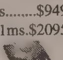

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510

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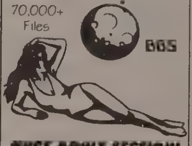

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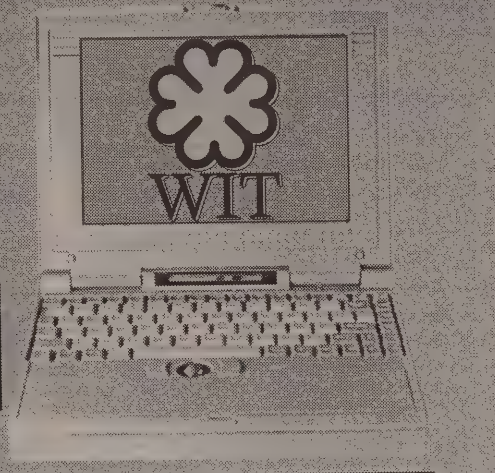

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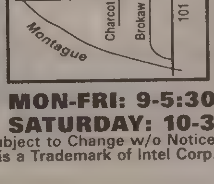

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Fremont BBS. (510)796-6714. 24 hrs., 14,400. Two lines. Community service/information BBS. Free access. [Exp. #148.]

The GIFt Shop. (510)609-1123. 8-N-1, 24 hrs., 14,400–28,800. Largest selection of GIFs/JPEGs for straight and gay users! [Exp. #148.]

GMV-BBS. (510)294-9052. 8-N-1, 24 hrs., 300–28,800. Multiline. Tele-conference, private chat, email, forums, games; Amiga, IBM, Mac files. Subscription. [Exp. #148.]

Gold Diggers BBS. (510)568-7807,,,25,25. 24 hrs., 2400–28,800. RIP SLBBS, files, online games, messages, all CPUs welcome. $10/year. Sysop: Harry Goldberg. [Exp. #150.]

The Great Abyss BBS. (510)482-5813. 24 hrs., 14,400. Telegard Beta site, GaSpNet, NIRVANAnet, PODnet, PR-Net, FidoNet. No PTC, FPR, validation. Sysop: Key Master. [Exp. #148.]

K 3 & Co.'s Over The Wire Resumes. (510)370-3719. Free resume listing. Free job hotlines, job resources, and more. [Exp. #150.]

The Machine. (510)825-2412. 24 hrs., 28,800. Pink Floyd information and updates. Message bases, files. Free. [Exp. #148.]

Maddog! BBS. (510)895-8089, 483-0203. 24 hrs., 2400–28,800. 20 CD-ROMs, online games, FidoNet, Internet email, Raider and 49er echos, more. Sysop: Troy Earp. [Exp. #150.]

The New-Ark BBS. (510) 796-0947. 24 hrs., 14,400. CD-ROM files. About to become multimedia, so join in. Free. [Exp. #150.]

The Phantom Zone BBS. (510)538-9586. 8-N-1, 24 hrs., 300–14,400. Three lines. Files, messages, games, echo mail, FidoNet, Internet email. [Exp. #148.]

Play Time BBS. (510)293-9970. 24 hrs., up to 14,400. Online games, chat, adult files, online purchases. Fee. [Exp. #148.]

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Red Dwarf BBS. (510) 261-3966. 300–14,400. Featuring Jetnet, LORD 3.52, Planets: TEOS, for mature users. Free. Sysops: Red Dwarf, Lady Seraphina. [Exp. #148.]

The Stage. (510)251-2431. 8-N-1, 24 hrs., 1200–14,400. Pagan-occult BBS. PODSnet, VampNet. Magickal library. Enjoy the play. [Exp. #148.]

$tar Net BBS. (510)893-9341. M–F: 24 hrs., Sat–Sun: 10:00 am–12:00 pm, 28,800. Multimedia (requires GUI client); pics: Asian, JapAnimation, adult files; CD-ROMs. Free/fee. [Exp. #150.]

VidGame BBS. (510)601-0771. 28,800. Nine nodes. Adult files; 1000s utils.; Internet newsgroups, email; Fido; more. Sysop: George Hassmer. [Exp. #150.]

VisionBytes! (510)355-0968. 28,800. Vision, healthcare topics. ASP, Apogee, Epic, FidoNet. Free Internet email. Free access. [Exp. #148.]

Windows OnLine. (510) 736-8343, telnet: 199.3.100.146, WWW: *http://www.cris.com/wol*. 8-N-1, 24 hrs., 28,800. Largest Windows BBS. Free limited trial. [Exp. #148.]

Wishing Well BBS. (510)745-7901. 1200–14,400. 85+ games, quality files, supports ANSI and RIP, adult files, more. Sysop: MaryLou White. [Exp. #149.]

WORLDVIEW-BBS.COM. (510)676-2919. 24 hrs., 28,800. Internet, Web pages, email, newsgroups, conferences, chat, Mac/Windows files. Free/fee. [Exp. #150.]

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EBS MicroSystems. (916)247-1232. 8-N-1, 24 hrs., 1200–28,800. 15 lines. 25.3GB. BBS Direct access. Sysop: Bruce Knapton. [Exp. #148.]

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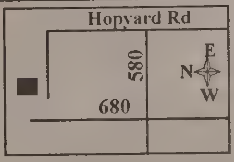

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USER GROUPS

AMIGA

AWEST—Amiga Users In SF. Meetings: 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Contact: (415) 474-1164. [Exp. #153.]

RE-Amiga—Redwood Empire Amiga Users Group. Meetings: 2nd Tues., 7:00 pm, Sonoma State University, Darwin Hall, Rm. 121, 1801 East Cotati Ave., Rohnert Park. Contact: (707)523-9978 or BBS, (707)539-6944. [Exp. #148.]

TOGA—The Other Group Of Amigoids. Meetings: 4th Sat. (except Nov.), 12:30 pm, Milpitas Community Library Meeting Room, 40 N. Milpitas Blvd., Milpitas. An informal group to share ideas, PD software, and information. Contact: Randy Abel, (408)356-9405 or *rabel1@cup.portal.com*; or Warren Burnham, (408)252-3406. [Exp. #153.]

ATARI

ABACUS—Atari Bay Area Computer Users Society. Meetings: 1st Sat., 1:00 pm, Potrero Branch Public Library, 2nd floor, 1616 20th St., San Francisco. Supporting all Atari computers and video games systems. Contact: Roger Sinasohn, (415)469-7924. [Exp. #148.]

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Contact: Robbie, (510)797-5636. [Exp. #151.]

CAD

BMUG Mac CAD SIG. Meetings: last Tues., 6:00 pm, San Francisco Apple Office, One Bush St., 10th Fl. (at Market St.). Presentations, demonstrations. Free. Contact: Steve Lukrofka, (415)931-8866 or *LUK@aol.com* . [Exp. #151.]

Marin AutoCAD Users Group (MAUG). Meetings: 1st Thurs., 6:30 pm, Autodesk, 111 McInnis Pkwy., Demo Rm., San Rafael (next to Embassy Suites). Contact: Priscilla Mills, (415)491-9111. [Exp. #153.]

San Francisco AutoCAD User's Group. Meetings: 1st Mon., 6:00 pm, SFSU Downtown Center, 425 Market St., San Francisco. Door prize every meeting. Contact: (415)263-7988. [Exp. #153.]

COMMODORE

C-HUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00 pm, Palma Ceia Park Clubhouse, Hayward. Commodore 64 and 128 owners are welcome to attend. Contact: (510)531-3734 or 793-7868. [Exp. #152.]

CWEST—Commodore 64/128 Users In SF. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission (near Ocean), San Francisco. Contact: (415) 626-9946. [Exp. #153.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Contra Costa Water District Anteroom, 1331 Concord Ave., Concord. Contact: (510)689-3224. [Exp. #151.]

DESKTOP PUBLISHING

Bay Area Corel Artists And Publishers (BAYCAP). Meetings: 1st Mon. (2nd if holiday), 7:30 pm, Varian Associates, Bldg. 7, 3075 Hansen, Palo Alto. Nonmember admission charge. Contact: (408)252-5586 or *http://www.altman.com/~rick/* . [Exp. #153.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor (near 1st and Mission), San Francisco. Demonstrations, technical support, informal discussion. Contact: (415)885-6631. [Exp. #153.]

Business Operations SIG Of The Software Forum. Meetings: 1st Tues., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Contact: Mike Schmit, (408)244-6826. [Exp. #152.]

East Bay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Oakland. All microcomputers, MS-DOS, CP/M. Contact: (510)653-2527, 8 am–10 pm. [Exp. #151.]

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Contact: (415)454-5556. [Exp. #152.]

Napa Valley PC Users Group. Meetings: 2nd Wed., 7:30 pm. Guests welcome. Contact: Lee Schwab, (707)257-2675 or *lee@community.net* for details and location. [Exp. #151.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, swap at 7:00 pm, Meiklejohn Hall, Room 2002 (inside 1009), CSU Hayward. Share knowledge and PD/shareware, network of BBSes, mentor assistance, SIGs. Contact: (510)276-6450 or 538-2449. [Exp. #153.]

Peninsula Computer Club. Meetings: 2nd Thurs., 7:30 pm, Rec Room, 222 Laurel St., San Carlos. DOS and CP/M libraries. Contact: (415)593-9981, BBS (415)571-9259. [Exp. #153.]

San Francisco Business Computers. Meetings: 4th Tues., 5:30 pm, 110 Pacific, #153, San Francisco. For people who use computers in their work. Visitors $10. Contact: (415)788-5338 or *425-1545@mcimail.com* . [Exp. #152.]

San Francisco PC Users Group. Meetings: 3rd Tues., 7:30 pm, UCSF, 3333 California St., San Francisco. Presentations, Q&A sessions. Contact: Loyd Cribbs, (415)751-5219 or 777-1332 for recorded events message. [Exp. #152.]

Silicon Valley Computer Society—SVCS. Meetings: 2nd Wed., 7:30 pm, Hewlett-Packard, Bldg. 48, Oak Room, 19483 Pruneridge Ave., Cupertino. General interest PC/Windows user association. Sponsors 20 SIGs. $2 nonmembers. Contact: (408)986-9254; BBS, (408)956-0317; WWW, *http://www.svcs.org* . [Exp. #153.]

South Bay WordPerfect User Group. Meetings: 3rd or 4th Tues., 7:00 pm, Saratoga Community Library, 13650 Saratoga Ave. (at Fruitvale), Saratoga. WordPerfect 6.1 for Windows product and education presentations. Free. Contact: Scott Maiden, (408)253-4591. [Exp. #153.]

Stanford/Palo Alto Users Group For PC. Meetings: 1st Wed., 7:30 pm, MediaCity, 526 Bryant St., Palo Alto. Contact: Beverly Altman, (415)321-6800 or *http://www.mediacity.com/~spaug/* . [Exp. #153.]

INTERNATIONAL

International Macintosh Users Group (IMUG). Meetings: 3rd Thurs., 7:00 pm, Apple Computer, R&D Campus, 1 Infinite Loop, Cupertino. A forum for multilingual/multiscript computing. Contact: Roger Sherman, (415)859-5146. [Exp. #153.]

International Software SIG Of The Software Forum. Meetings: 3rd Mon., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Contact: Charlie Pfefferkorn, (408)923-7570. [Exp. #152.]

INTERNET

BCOOL (Bay Area Computer Org. On-Line). Meetings: 2nd Fri., location varies. Free online classes, tech support, discussions, Web surfing, novices welcome, more. Contact: Lloyd, (415)459-8916, BBS (415)459-6094. [Exp. #153.]

Internet SIG Of The Software Forum. Meetings: 2nd Wed., 7:00 pm, Sun Microsystems, Bldg. 6, 2500 Garcia Way, Mountain View. $10. Contact: Walt Schilling, (415)390-9477. [Exp. #152.]

LEGAL

BMUG Law SIG/Law SIG South. Meetings: 2nd Wed., 6:00 pm, Nossaman, Guthner, Knox & Elliot, 50 California St., 34th Fl., San Francisco. Contact: Randy, (916)661-2280 or *rbs@aol.com* ; or Ted, (415)383-4783 or *tllindberg@aol.com* . [Exp. #151.]

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed. odd-numbered months, noon, SF Bar Assoc. Boardroom, 7th Fl., 685 Market St., San Francisco. Brown bag meetings. Contact: (415)421-5650. [Exp. #153.]

MACINTOSH

Association Of A32 Users. Meetings: 2nd Sat., 10:00 am, Sunnyvale Community Center Arboretum, 550 E. Remington Ave. (near corner of El Camino and Fair Oaks). Q&A session; guest speakers and vendor demonstrations; shareware, freeware, and PD software disks. Contact: (408)263-0398. [Exp. #151.]

OpenDoc/Macintosh SIG Of The Software Forum. Meetings: 3rd Tues., 7:00 pm, Apple Computer, R&D Bldg. 4, 4 Infinite Loop, Cupertino. $10. Contact: Tony Meadow, (510)644-9400. [Exp. #152.]

SMUG (Stanford/Palo Alto Macintosh User's Group). Meetings: 1st Mon., 6:30 pm, Roche Bioscience Auditorium, 3401 Hillview Ave., Palo Alto. Contact: (415)856-3113 or *http://www.mediacity.com/smug/smug.html* . [Exp. #153.]

MISCELLANEOUS

BOIG (Bay Area Object Interest Group). Meetings: monthly. An open forum for users of object technology to exchange ideas. Expert speakers. Contact: Ron Lang, (415)967-5044 or *BOIG@aol.com* . [Exp. #151.]

IICS Education SIG. Meetings: 2nd Wed., 6:30 pm, KQED, 2nd floor, 2601 Mariposa Ave., San Francisco. Contact: Donna Booher, (415)673-1892. [Exp. #152.]

IICS Human Interface SIG. Meetings: 4th Tues., 6:30 pm, KQED Board Room, 2601 Mariposa Ave., San Francisco. Refreshments, networking. Contact: Bob Brescia, (415)777-5486. [Exp. #152.]

Livermore Amateur Radio Klub. Meetings: 3rd Sat., 9:30 am, Livermore City Council Chambers, corner of Pacific and Livermore aves. All visitors are welcome. For those interested in amateur radio. Contact: Chuck Thompson, KE6DRN, (510)606-6074; or Clancy Soucie, N6FQQ, (510)462-8946. [Exp. #148.]

Marketing SIG Of The Software Forum. Meetings: 2nd Mon. (no meeting 2/12), 7:00 pm, Center for Software Development, 111W. St. John St., Ste. 200, San Jose. $10. Contact: Stan Trumbull, (408)996-1376. [Exp. #152.]

MOBILE

Mobile/Wireless SIG Of The Software Forum. Meetings: 4th Wed., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Contact: Dick Roistacher, (415)591-8236. [Exp. #152.]

Stanford Newton User Group. Meetings: 2nd and 4th Tues., 7:00 pm, Printer's Inc. Bookstore Cafe, 310 California Ave., Palo Alto. Contact: Flash Sheridan, (415)462-9203 or *FlaSheridn@rahul.net* or *http://www.rahul.net/flasheridn/snug/index.html* . [Exp. #151.]

MULTIMEDIA

Authorware User Forum. Meetings: last Tues. (except Aug./Dec.), 6:30 pm, Scitor Corp., 256 Gibraltar Dr., #C1, Sunnyvale. (510)736-5245. [Exp. #153.]

Multimedia SIG Of The Software Forum. Meetings: 4th Thurs., 7:00 pm, Center for Software Development, 111 W. St. John Street, Suite 200, Downtown San Jose. $10. Contact: Dave McCutcheon, (415)506-4238 or Charlie Pfefferkorn, (408)923-7570. [Exp. #152.]

NETWORKING

Client/Server SIG Of The Software Forum. Meetings: 4th Tues., 7:00 pm,

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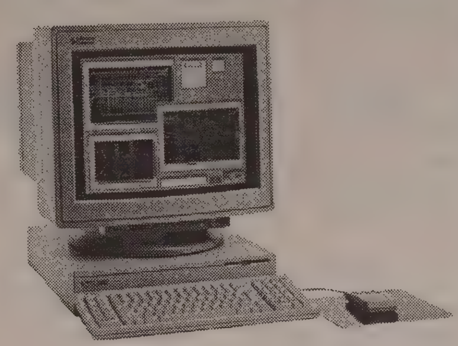

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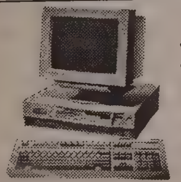

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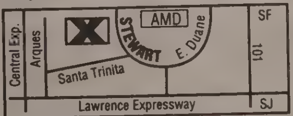

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USER GROUPS cont...

Cubberly Community Ctr., Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Contact: Neil Goldstein, (408)559-3636. [Exp. #152.]

SF NetWare Users' Group. Meetings: 2nd Tues., 6:00 pm, 4 Embarcadero Center, 5th Floor, San Francisco. Sponsored by Systems Partners and Novell. Contact: Diane Danielle, *70020.645@compuserve.com* . [Exp. #153.]

PROGRAMMING LANGUAGES

Advanced C/C++ SIG Of The Software Forum. Meetings: 1st Thurs., Cubberly Community Center, Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Contact: Marian Corcoran, (408)973-1662. [Exp. #152.]

Delphi SIG Of The Software Forum. Meetings: 2nd Wed., 7:00 pm, KnowledgePoint, 1129 Industrial Ave., Petaluma. $10. Contact: Bjarne Winkler, (415)461-8086. [Exp. #152.]

ObjectPAL User Group In Sacramento. Meetings: 2nd Tues., 7:00 pm, Red Lion Hotel, Cedar Room, 2001 Point West Way, Sacramento. Contact: Jorge Herrera, (916)631-1986. [Exp. #153.]

Silicon Valley Delphi SIG. Meetings: 1st Thurs., 7:00 pm, Loral Systems, 1260 Crossman, Sunnyvale. Special interest group of the Silicon Valley Computer Society. Contact: Scott Jackson, (408)738-0424. [Exp. #151.]

Silicon Valley Forth Interest Group. Meetings: 4th Sat., 10:00 am–5:00 pm, 230 Lincoln Centre Dr., Foster City. Contact: Dr. C.H. Ting, (415)638-5669 (w), 571-7639 (h). [Exp. #152.]

Visual Basic SIG Of The Software Forum. Meetings: 2nd Thurs., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Contact: Allan Colby, (415)851-4567. [Exp. #152.]

Visual Basic User Group In San Francisco. Meetings: 3rd Thurs., 6:30 pm, 450 Sansome St. at Clay, Suite 1250, San Francisco. Sponsored by Systems Partners and Terrace Systems. Contact: Dov Gorman, (510)525-9525 or *gorman@i-dimensions.com* . [Exp. #153.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Need soft-/hardware? Contact: Fred, (510)530-8335. [Exp. #151.]

UNIX

AT&T UNIX Computer Users Group. Contact: Thad Floryan, (415)961-5157. [Exp. #153.]

Cal Linux Users Group. Meetings: monthly, Soda Hall, UC Berkeley. To discuss Linux and related topics. Free, everyone welcome. Contact: Paul, (510)527-6196 or *http://www-callug.cs.berkeley.edu/* or *board@callug.cs.berkeley.edu* . [Exp. #151.]

Open Systems SIG Of The Software Forum. Meetings: 2nd Tues., 7:00 pm, DEC Auditorium, 130 Lytton Ave., Palo Alto. $10. Contact: George Bosworth, (415)851-3304. [Exp. #152.]

WINDOWS

Windows SIG Of The Software Forum. Meetings: 1st Wed., 6:30 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $15. Contact: Fran Finnegan, (415)288-4400. [Exp. #152.]

ASSOCIATIONS

Association For Systems Management & Data Processing Management Association. Meetings: 1st Wed., 5:30 pm, Mountain View. Networking, dinner, speaker; $20 to $25. Call: (408)727-3906. [Exp. #152.]

Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, Standing Room Only, Crocker Galleria, 50 Post St., San Francisco. $10 members, $15 guests. Call: (415)979-8450. [Exp. #153.]

Bay Area Association Of Entrepreneurial Software Engineers. Meetings: 1st Tues., 6:30 pm, in Palo Alto. Dinner, lectures, discussion, brainstorming, networking, product development, financing, marketing, distribution. Contact: (510)498-8249 or *http://www.alvin.org/baaese* . [Exp. #151.]

Black Data Processing Associates. Nationwide network of IT professionals with two chapters in the Bay Area. Contact: Willie Mackey, (408)280-7624 or *wjmackey@netcom.com* . [Exp. #152.]

Business Marketing Association. Meetings: 4th Wed., 11:30 am, Marriott Hotel on Great America Pkwy., Santa Clara. A professional organization for business-to-business marketing professionals; CBC certification, topical programs, seminars, job bank. Call: (408)365-9815. [Exp. #151.]

Center For Software Development. 111 West Saint John, Ste. 200, San Jose. Provides resources for self-service testing, prototyping, and porting on many different platforms. Call: (408)494-8378. [Exp. #152.]

Database Designers Association. A consortium of those who design custom databases and applications. For membership and meeting info send name and address to *dda@cm-solutions.com*, fax (415)536-1901, voice (415)536-1900. [Exp. #151.]

Independent Computer Consultants Association. Meetings: 2nd Tues., 6:00 pm, The City Club, 155 Sansome St., San Francisco. Open discussion, questions and answers. Call: (415)399-0305. [Exp. #151.]

International Interactive Communications Society. Meetings: 2nd Tues. Professional association for individuals involved in multimedia, from marketing to graphics and programming. Call: (415)553-2202, hotline: (415)252-8114. [Exp. #152.]

Management & Technology Association. Explore ways that computers can be used to improve a business's bottom line. Contact: (415)536-1900 or *mt-assoc@cm-solutions.com* . [Exp. #148.]

Society For Technical Communication, San Francisco Chapter. Meetings: 3rd Wed., 6:00 pm, program at 6:45 pm. For tech writers, editors; job listings, speakers, publications competition, newsletter. Contact: (415) 985-7121, *http://stc.org* for location. [Exp. #151.]

The Software Forum. Meetings: 3rd Wed., 6:30 pm. Industry association dedicated to software developers and entrepreneurs, offering information and education on all facets of the software industry. Contact: (415)854-7219 for reservations/info. [Exp. #152.]

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Free user group and association listings are limited to the group's name, meeting information, contact name and phone number, and a ten-word description. They will be **deleted at six-month intervals** to ensure timeliness and accuracy of information.

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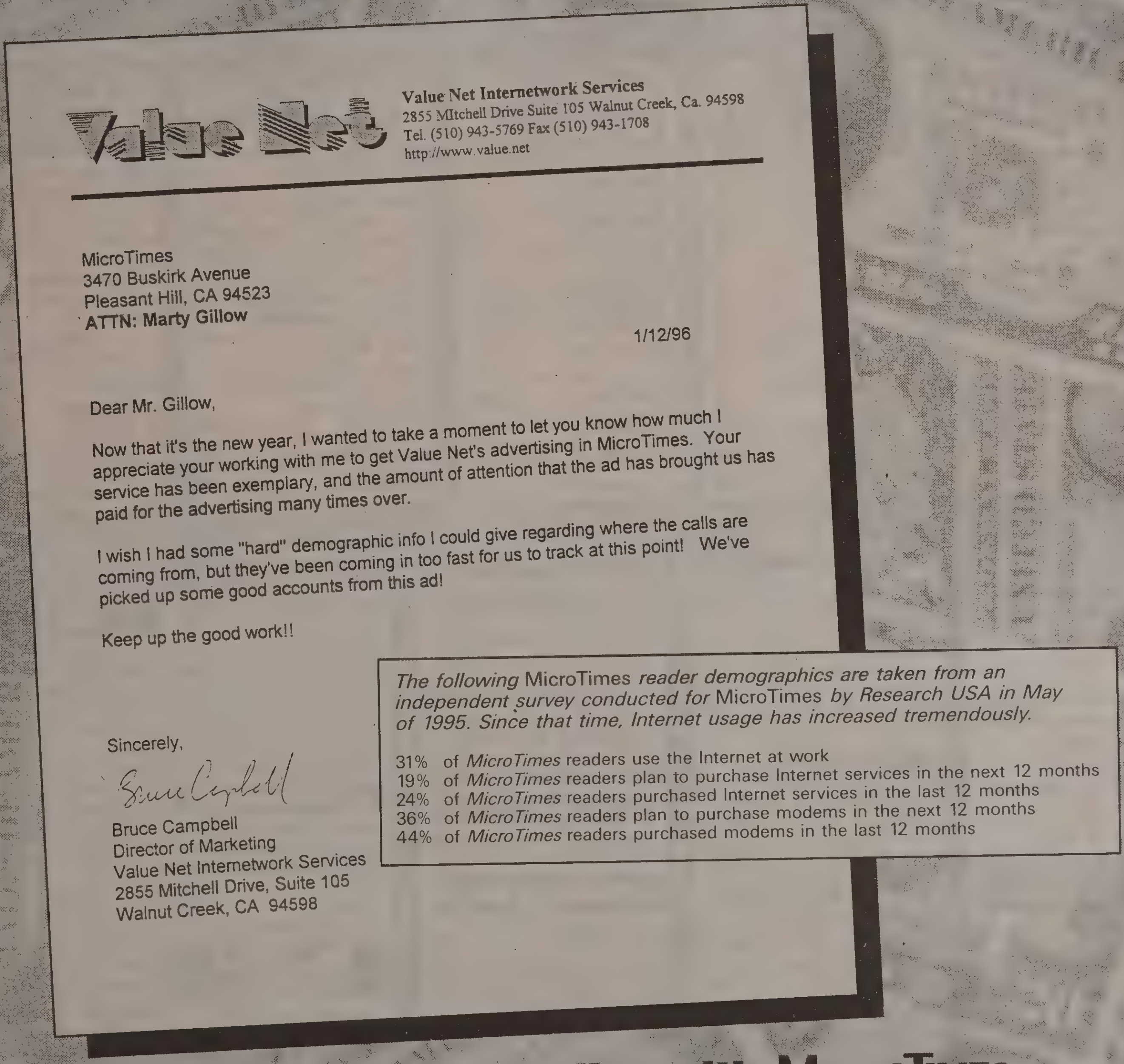

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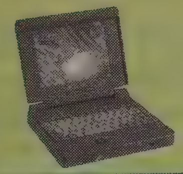

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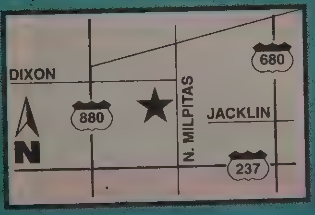

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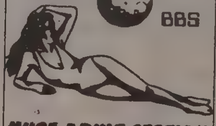

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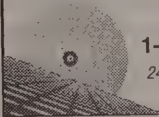

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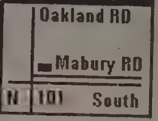

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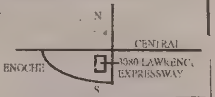

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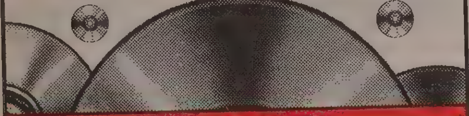

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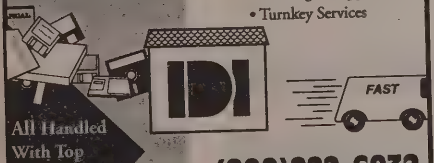

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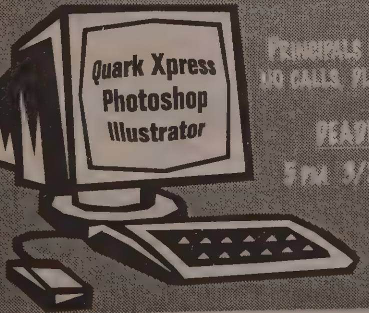

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8/19/96 8/21/96	154 North 154 South	Family Computing

RoboHELP 3

continued from page 91

designed template over the exported file and almost effortlessly have a manual ready to print.

WinHelp Office 95

Since my first introduction to RoboHELP, Blue Sky Software has introduced a suite of related utilities, which includes the estimable RoboHELP, called WinHelp Office 95. My personal favorite feature is:

WinHelp Hyperviewer—This utility, for use with Windows 3.x help files, installs a button on the help window's button bar that brings up an expandable/collapsible hierarchical view of the entire help project similar to that available through Windows 95. Using this feature you can view the gross outline of the whole help file, a close-up of a detailed part of it, or any hierarchical level between these two extremes. You can also print multiple, nonsequential help topics. Another terrific feature of this utility, also implemented through the button bar, allows you to search for any string in the help file rather than merely for preestablished keywords. The resulting search gives you a list of the help topics the string was found in and the text of the topic currently highlighted in the list.

Another gadget I am aching to apply is the WinHelp Video Kit—This feature allows you to capture changes on a specified area of the screen. This has potential in applications where a complicated sequence of mouse clicks is necessary for some purpose or where a graphic image is being produced. Unfortunately, editing the product is not a trivial matter, and in fact can only be accomplished with another piece of software; so whatever you are recording has to be done quickly and perfectly. Also, playback is slow.

RoboHELP itself, the backbone of this program family, has been enhanced (and upgraded to RoboHELP 95) to improve the appearance of on-screen help files, including such features as bulleted and numbered lists, hanging indents, smart quotes, and en- and em-dashes. The formerly rather bulky toolbar is now also available in Word 6 as an optional toolbar that can be added with standard Word tools to the top of a window.

My principal complaints with RoboHELP have to do more with sins of omission rather than sins of commission. The program itself is fast, powerful, and a pleasure to use. The manual is clearly written, as far as it goes, but fails to mention certain common pitfalls or some very useful features that would streamline the conversion to print media.

The long and short of it is that RoboHELP is a really terrific piece of software, facilitating the creation of context-sensitive help files as well as standalone, on-screen documentation like training manuals and tutorials. Since it is possible to do almost anything, it is difficult to decide where to draw the line. If you need guidance on the design of effective help materials, you need to look somewhere else. But once you have the design in mind, you won't find a better tool for implementing it than RoboHELP. ■

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	MOTHER-BOARD	MOTHER-BOARD WITH CPU	* BASIC SYSTEM W/4MB RAM	* BASIC SYSTEM W/8MB RAM	* BASIC SYSTEM W/16MB RAM	*BASIC SYS W/4MB RAM +540MB HDD + 1MB SVGA CARD & FREE PC DOS { 850MB HDD ADD $30 }	*BASIC SYS W/8MB RAM +850MB HDD + 1MB SVGA CARD & FREE PC DOS { 1.2GB HDD ADD $40 }	*BASIC SYS W/16MB RAM +1.2GB HDD + 1MB SVGA CARD & FREE PC DOS { 1.6GB HDD ADD $40 }	*BASIC SYS W/4MB RAM +540MB HDD + 1MB SVGA CARD + 14" SVGA .28 NI MONITOR & FREE PC DOS { 850MB HDD ADD $30 }	*BASIC SYS W/8MB RAM +850MB HDD + 1MB SVGA CARD + 14" SVGA .28 NI MONITOR & FREE PC DOS { 1.2GB HDD ADD $40 }	*BASIC SYS W/16MB RAM +1.2GB HDD + 1MB SVGA CARD + 15" SVGA .28 NI MONITOR & FREE PC DOS { 1.6GB HDD ADD $40 }
P6-200/256C PCI (ASUS M/B)	N/A	$2,548	$2,758	$2,838	$3,008	$2,978	$3,088	$3,278	$3,188	$3,298	$3,558
P6-180/256C PCI (ASUS M/B)	N/A	2,248	2,458	2,538	2,708	2,678	2,788	2,978	2,888	2,998	3,258
P6-150/256C PCI (ASUS M/B)	N/A	1,998	2,208	2,288	2,458	2,428	2,538	2,728	2,638	2,748	3,008
P5-166C PCI (INTEL ATLANTIS M/B)**	$298	928	1,138	1,218	1,388	1,358	1,468	1,658	1,568	1,678	1,938
P5-150C PCI (INTEL ATLANTIS M/B)**	298	728	938	1,018	1,188	1,158	1,268	1,458	1,368	1,478	1,738
P5-133C PCI (INTEL ATLANTIS M/B)**	298	618	828	908	1,078	1,048	1,158	1,348	1,258	1,368	1,628
P5-120C PCI (INTEL ATLANTIS M/B)**	298	558	768	848	1,018	988	1,098	1,288	1,198	1,308	1,568
P5-100C PCI (INTEL ATLANTIS M/B)**	298	498	708	788	958	928	1,038	1,228	1,138	1,248	1,508
P5-75C PCI (INTEL ATLANTIS M/B)**	298	408	618	698	868	838	948	1,138	1,048	1,158	1,418
P5-133C PCI (INTEL ENDEAVOR M/B)**	204	528	738	818	988	958	1,068	1,258	1,168	1,278	1,538
P5-120C PCI (INTEL ENDEAVOR M/B)**	204	468	678	758	928	898	1,008	1,198	1,108	1,218	1,478
P5-100C PCI (INTEL ENDEAVOR M/B)**	204	408	618	698	868	838	948	1,138	1,048	1,158	1,418
P5-75C PCI (INTEL ENDEAVOR M/B)**	204	318	528	608	778	748	858	1,048	958	1,068	1,328
P5-133/256C PCI (INTEL ZAPPA or ASUS M/B)	188	508	718	798	968	938	1,048	1,238	1,148	1,258	1,518
P5-120/256C PCI (INTEL ZAPPA or ASUS M/B)	188	438	648	728	898	868	978	1,168	1,078	1,188	1,448
P5-100/256C PCI (INTEL ZAPPA or ASUS M/B)	178	378	588	668	838	808	918	1,108	1,018	1,128	1,388
P5-75/256C PCI (INTEL ZAPPA or ASUS M/B)	178	288	498	578	748	718	828	1,018	928	1,038	1,298
P5-166C/256C PCI**	118	738	948	1,028	1,198	1,168	1,278	1,468	1,378	1,488	1,748
P5-150C/256C PCI**	118	538	748	828	998	968	1,078	1,268	1,178	1,288	1,548
P5-133C/256C PCI**	118	428	638	718	888	858	968	1,158	1,068	1,178	1,438
P5-120C/256C PCI**	118	368	578	658	828	798	908	1,098	1,008	1,118	1,378
P5-100C/256C PCI**	118	308	518	598	768	738	848	1,038	948	1,058	1,318
P5-75C/256C PCI**	118	218	428	508	678	648	758	948	858	968	1,228
P5-60/256C VLB-PCI	100	198	408	488	658	628	738	928	838	948	1,208
NX586-P90/256C PCI (Nexgen M/B)	N/A	238	448	528	698	668	778	968	878	988	1,248
5X86-100C VLB (PCI: ADD $15)	54	144	354	434	604	574	684	874	784	894	1,154
486DX4-133C VLB (PCI: ADD $15)	54	138	348	428	598	568	678	868	778	888	1,148
486DX4-100/256C VLB-PCI (ASUS M/B)	138	198	408	488	658	628	738	928	838	948	1,208
486DX4-100C VLB (PCI: ADD $15)	54	104	314	394	564	534	644	834	744	854	1,114
486DX2-80C VLB (PCI: ADD $15)	54	84	294	374	544	514	624	814	724	834	1,094
486DX2-66C (PCI: ADD $15)	54	74	284	364	534	504	614	804	714	824	1,084
386SX-40 ISA	N/A	48	258	338	508	478	588	778	688	798	1,058

HI-TECH BEST BUY SYSTEM

- **4MB RAM** (8MB/16MB: Add $80/$238)
- **540MB EIDE** (850MB/1.2GB: Add $30/$60)
- 1.44MB 3.5" Floppy Drive
- PCI, VLB or ISA Controller with I/O
- Enhanced Case w/Power Supply
- PCI, VLB or ISA SVGA Card w/1MB
- **14" NI .28 Monitor*** (15"/17": Add $80/$310)
- 101-Key Enhanced Keyboard
- Free PC DOS and Mouse w/pad

P5-166/256K PCI........................$1,388
P5-150/256K PCI........................1,188
P5-133/256K PCI........................1,088
P5-120/256K PCI........................1,018
P5-100/256K PCI........................968
P5-75/256K PCI........................878
P5-60/256K VLB-PCI........................838
P5-90/256K PCI (Nexgen)................868
5X86-100/256K VLB or PCI............818
486DX4-133/256K VLB or PCI........808
486DX4-100/256K VLB or PCI........768
486DX2-80/256K VLB or PCI..........758
486DX2-66/256K VLB or PCI..........748

UPGRADES

- Microsoft Windows 95 Full Copy....................Add $90
- Microsoft Windows 3.x....................Add 42

HI-TECH DREAM SYSTEM

- **8MB RAM** (16MB/32MB: Add $158/$458)
- **850MB EIDE** (1.2GB/1.6GB: Add $30/$70)
- TEAC 1.44MB 3.5" Floppy Drive
- VLB or PCI IDE Controller with I/O
- VLB or PCI SVGA Card w/1MB
- **14" NI .28 Monitor*** (15"/17": Add $80/$310)
- Keytronics Keyboard
- Enhanced Case w/Power Supply
- Free PC DOS and Mouse w/Pad

P5-166/256K PCI........................$1,488
P5-150/256K PCI........................1,288
P5-133/256K PCI........................1,188
P5-120/256K PCI........................1,118
P5-100/256K PCI........................1,068
P5-75/256K PCI........................978
P5-60/256K VLB-PCI........................938
P5-90/256K PCI (Nexgen)................968
5X86-100/256K VLB or PCI............908
486DX4-133/256K VLB or PCI........898
486DX4-100/256K VLB or PCI........858
486DX2-80/256K VLB or PCI..........848
486DX2-66/256K VLB or PCI..........838

UPGRADES

- Microsoft Windows 95 Full Copy....................Add $90
- Microsoft Windows 3.x....................Add 42
- 28.8 Internal Fax Modem....................Add 105

HI-TECH WINNER SYSTEMS

- Intel Pentium™ Processor with Fan
- 256KB External Cache
- **8MB RAM** (16MB/32MB: Add $158/$458)
- **850MB EIDE** (1.2GB/1.6GB: Add $30/$70)
- TEAC 1.44MB 3.5" Floppy Drive
- VLB or PCI IDE Controller with I/O
- Diamond Stealth SE VLB or PCI with 1MB
- **15" SVGA .28 Color Monitor***
- Keytronics Keyboard
- Medium Tower Case w/Power Supply
- PC DOS and Microsoft Compatible Mouse w/Pad

P5-166/256K PCI........................$1,618
P5-150/256K PCI........................1,418
P5-133/256K PCI........................1,308
P5-120/256K PCI........................1,238
P5-100/256K PCI........................1,188
P5-75/256K PCI........................1,098
P5-60/256K VLB-PCI....................1,078
P5-133/256K PCI (Intel Zappa)...1,368
P5-120/256K PCI (Intel Zappa)...1,298
P5-100/256K PCI (Intel Zappa)...1,218
P5-75/256K PCI (Intel Zappa).....1,128

UPGRADES

- Microsoft Windows 95 Full Copy....................Add $90
- Microsoft Windows 3.x....................Add 42
- 17" Non-Interlaced Monitor*....................Add 240
- 28.8 Internal Fax Modem....................Add 105

HI-TECH SUPER P5 SYSTEMS

- Intel Pentium™ Processor with Fan
- 256KB Pipelined Burst Cache
- **8MB RAM** (16MB/32MB: Add $158/$458)
- **850MB EIDE** (1.2GB/1.6GB: Add $30/$70)
- TEAC 1.44MB 3.5" Floppy Drive
- PCI IDE Controller with I/O
- Diamond Stealth SE or ATI PCI w/1MB
- **15" SVGA .28 Color Monitor***
- Keytronics Keyboard
- Medium Tower Case w/Power Supply
- PC DOS and Microsoft Compatible Mouse w/Pad

P5-166/256K PCI (Intel Atlantis) .$1,748
P5-150/256K PCI (Intel Atlantis)....1,548
P5-133/256K PCI (Intel Atlantis)....1,438
P5-120/256K PCI (Intel Atlantis)....1,368
P5-100/256K PCI (Intel Atlantis)....1,318
P5-75/256K PCI (Intel Atlantis)......1,228
P5-133/256K PCI (Intel Endeavor) .1,408
P5-120/256K PCI (Intel Endeavor) .1,338
P5-100/256K PCI (Intel Endeavor) .1,288
P5-75/256K PCI (Intel Endeavor) ...1,198

UPGRADES

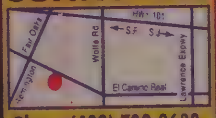
- Microsoft Windows 95 Full Copy....................Add $90
- Microsoft Windows 3.x....................Add 42
- 17" Non-Interlaced Monitor*....................Add 240
- 28.8 Internal Fax Modem....................Add 105

MILPITAS

HWY 880
Centre Pointe Dr
Capitol Ave
HWY 680
Montague Expressway

Phone (408) 262-8688
1558 & 1562 Centre Pointe Drive
Milpitas, CA 95035 Fax (408) 262-8772

SUNNYVALE



Phone (408) 732-8688
730 East El Camino Real
Sunnyvale, CA 94087 Fax (408) 732-9388

PENINSULA

Holly
El Camino Real
Whipple Ave
Industrial Road
HWY 101

Phone (415) 508-8688
981B Industrial Road
San Carlos, CA 94070 Fax (415) 508-6383

SALES HOURS
Mon-Fri: 8:30am-6pm
9:30am-7pm ([illegible])
Sat: 10am-4pm

SERVICE HOURS
Mon-Fri: 9am-5:30pm
Sat: 10am-3:30pm
([illegible])

HI-TECH USA
ALWAYS THE BEST

TERMS AND CONDITIONS

1. One year parts and labor warranty on systems.
2. Knowledgeable technical support engineers in service.
3. Prices and availability subject to change w/o notice.
4. Shipping, insurance and COD charges are extra and non-refundable. Prices reflect cash discounts.
5. Return shipping must be insured, prepaid and bearing an RMA# on the shipping label.
6. Defective items replaced or repaired at our discretion.
7. No responsible for typos.
8. All returns subject to 15% restocking fee and cover only Hi-Tech USA brand computers, excludes peripherals and software. No refunds after 30 days.
9. Superior reputation for service, quality and value.
10. Purchase orders are welcomed and subject to approval.

*Monitor viewable size may be smaller than advertised size.

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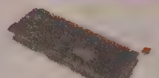
(408) 732-8688 Sunnyvale
(415) 508-8688 San Carlos

CASE W/POWER SUPPLY

200W / 230W Power Supply	$24 / 27
250W / 300W Power Supply	33 / 55
Mini Tower Case w/200W Power Supply	**35**
Desktop AT Case w/200W Power Supply	45
Medium Tower Case w/230W Power Supply	57
Full Tower Case w/250W Power Supply	76
APC UPS	
Back 280VA / 450VA / 600VA	98 / 168 / 228
Back 900VA / 1200VA	328 / 398
Smart 450VA / SU700	268 / 328
Smart SU1000 / SU1400	448 / 548
Optiquest UPS 280E / 420E	108 / 158

CONTROLLERS



I/O (2S / 1P / 1G)	**$9**
IDE 2FD/2HD with 2S/1P/1G	**10**
PCI IDE with I/O	**30**
VLB IDE with I/O	**14**
IDE I/O (2S/1P) w/16550 UART Chip	25
VLB IDE I/O (2S/1P) w/16550 UART Chip	**19**

adaptec

1522 / 1542CF (SCSI)	$69 / 133
1542CP / 1542CPK (SCSI)	161 / 222
2825 VLB / 2842 VLB (SCSI)	103 / 160
2940 PCI / 2940W PCI (SCSI)	184 / 211
2940UW PCI / 3940 PCI (SCSI)	248 / 314

DATA TECHNOLOGY

DTC 2280 / 2280E ISA	$14/20
DTC 2278E VLB IDE W/16550 UART Chip	25
DTC 2278D VLB IDE I/O Dual Ports	18

PROMISE TECHNOLOGY, INC.

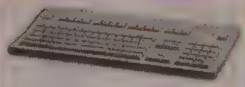
Promise DC-200 IDE Cache Controller	**$84**
Promise DC-2300 Plus VLB IDE Fast I/O	43
Promise DC-4030 VLB IDE Cache Controller	**78**
Promise DC-4030+ VLB EIDE	**110**
Promise DC-5030 PCI IDE 0-16MB Cache	**118**

HARD/FLOPPY DRIVES

Quantum™
Maxtor Seagate
MICROPOLIS CONNER
WESTERN DIGITAL

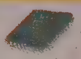
HARD DRIVES	
540MB IDE / 635MB IDE	**$154 / 164**
850MB IDE / 1.0GB IDE	**178 / 198**
1.2GB IDE / 1.6GB IDE	**208 / 248**
540MB SCSI / 1.0GB SCSI	164 / 198
2.0GB SCSI	**488**
FLOPPY DRIVES	
Epson, SONY or NEC 1.2 / 1.44 FDD	**$28 / 23**
Teac 1.2 /1.44 Floppy Drive	37 / 25
3.5" DS/HD High Density Diskettes 10 Pack	**4**

KEYBOARDS



101 Enhanced Keyboard	$13
FOCUS	
FK2001 101-Key Click	**27**
FK6200W 104-Key for Windows '95	**24**
FK7200W w/Trackball	30
FK8000 w/Calculator	33
FK9000 Programmable w/Calculator	39
Keytronics 101-Key Enhanced	**17**
Keytronics 104-Key for Windows 95	**21**
Mitsumi 104-Key for Windows 95	**14**
Maxiswitch 101-Key Enhanced	**19**
Maxiswitch Pro II 124 Key Programmable	43
Microsoft Natural Key	**53**
NORTHGATE	
OMNI 101 NI / 102 / Ultra	**$56 / 58 / 72**

MATH COPROCESSORS



387DX-40 Tube / Box	**$17 / 29**
387SX-40 Tube / Box	17 / 29
387SX-33 Tub e/ Box	17 / 29

MEMORY

256KB / 1MB / 4MB (30 Pin)	**13 / 25 / 88**
4MB/8MB/16MB (72-Pin)	**80 / 160 / 320**
4MB/8MB/16MB (EDO)	**88 / 176 / 368**
Simm Converter (30-pin to 72-pin)	**19**

MODEMS & FAXES

Fax Modem 14,400 Internal	**$37**
Fax Modem 14,400 Int (Plug and Play)	**40**
Fax Modem 14,400 External	53
Fax Modem 14,400 w/Voice Internal	**44**
Fax Modem 14,400 w/Voice External	63
Fax Modem 28.8 with V.34 Int.	**105**
Fax Modem 28.8 with V.34 Ext	122
Fax Modem 33.6 with V.34 Int	120
PCMCIA Fax Modem 14,400 w/Voice	75
PCMCIA Fax Modem 28,800 w/V.34	156
HAYES	
Accura 14.400 Int/Ext	**$84 / 99**
Accura 28.8 w/V.34 Int/Ext	**172 / 198**
Optima 28.8 w/V.34 Int/Ext	**356 / 406**
PRACTICAL PERIPHERALS	
14.400 Fax Modem Int/Ext	**73 / 88**
28.8 w/V.34 Fax Modem Int/Ext	**173 / 193**
SUPRA 28.8 Fax Modem w/V.34 Int/Ext	**114/144**
US ROBOTICS	
Sportster Si 14,400 Fax Modem External	**$58**
Sportster 14,400 FM Int / Ext (Classic)	**85/106**
Sportster 28.8 Fax Modem w/V.34 Int	**174**
Sportster 28.8 Fax Modem w/V.34 Ext	191

MOUSE/SCANNERS

3-Button Mouse Microsoft Compatible	**$6**

LOGITECH

First Mouse (OEM / Retail)	$12 / 25
Mouseman Serial (OEM / Retail)	**20 / 44**
Mouseman Bus (Retail)	**62**
Trackman (OEM / Retail)	42 / 70

Microsoft

Microsoft Mouse Serial (w/System)	**$21**

MONITORS*

14" Mono	**$66**
15" VGA Mono	84
14" SGA 1024•768 .28 NI	**210**
15" SVGA 1024•768 .28 (KFC or Smile)	284
17" SVGA 1280•1024 .28 (KFC or Smile)	**518**

CTX

14" Super VGA 1024•768 .28 NI	$227
15" Super VGA 1024•768 .28	**326**
17" Super VGA 1280•1024 .28	616

IIYama (IDEK)

MF-8115 15" 1280•1024 .28	$386
MF-8617E 17" 1600•1200 .26	724
MF-9017E 17" 1600•1200 .25	822
MF-9021E 21" 1600•1200 .30	1,714
MF-8221E 21" 1600•1200 .28	1,874

Impression

3E Plus 14" 1024•768 .28 NI	$210
5E 15" 1280•1024 .28 NI	298
7E 17" 1280•1024 .28 NI	520

MAG INNOVISION

1595 15" 1280•1024 .28 (New Model)	**$364**
1795 17" 1280•1024 .26 (New Model)	**634**

NANAO

F2-17 .28 / F2-17EX .26	808 / 924
T2-17TS .25 / T2-17 .25	966 / 1,214
T2-20 .30	1,876

NEC

Multisync XV 15 / XE 15 / XP 15	$444 / 536 / 560
Multisync XV 17 / XV 17+ / XE 17	715 / 778 / 968
Multisync XE 21 / XP 21	1,720 / 2,088

NOKIA

449E 15" 1280•1024 .28	$422
447L 17" 1024•768 .28	686
447X 17" 1600•1280 .25	946
445X 21" 1600•1280 .28 TCO	1,992

SONY

15SF 15" 1280•1024 .25	**$464**
15SF II 15" 1280•1024 .25	**478**
17SFII 17" 1280•1024 .25	**818**
20SE1 20" 1600•1200 .30	1,808

ViewSonic®

14ES 14" 1024•768 .28	**$253**
15ES 15" 1024•768 .28	**348**
15G 15" 1280•1024 .28 60MHz	392
15GS 15" 1280•1024 .27	412
15GA 15" 1280•1024 .27 w/Speakers	468
17EA 17" 1280•1024 .28	622
17GS 17" 1280•1024 .28 Green	**658**
17PS 17" 1600•1280 .25 Green	806
20G 20" 1600•1280 .28	1,140
21PS 21" 1600•1280 .25	**1,546**

*** Monitor Viewable size may be smaller than advertised size**

NETWORKS

16 BIT Ethernet Cards (Coax)	**$19**
16 BIT Ethernet Cards (10 Base-T)	**19**
16 BIT Ethernet Cards (Combo)	**21**

3Com

3C509 ELINK III Coax / 5 pack	$104 / 442
3C509 ELINK III TP / 5 pack	71 / 404
3C509 ELINK III Combo / 5 pack	91 / 480
3C590 PCI TP / Combo	103 / 123
LinkBuilder 8 Port Hub	180
LinkBuilder 12 Port Hub	468
LinkBuilder 24 Port Hub	818

ARCnet

Bus Topology ISA Card (8 BIT / 16 BIT)	$44
Star Topology ISA Card (8 BIT / 16 BIT)	44

Hubs and Repeaters

8-Port 10 Base T HUB (w/BNC)	$86
16-Port 10 Base T HUB (w/BNC, AUI)	182

Novell 4.1 (CD)

5 / 10 / 25 User	$CALL
50 / 100 / 250 User	$CALL

PRINTERS

CITIZEN

GSX-220 (24-Pin)	**$124**
Color Option for Citizen Printers	48

HEWLETT PACKARD

HP 600	**$258**
HP 600C	**288**
HP 660C	404
HP 850C	528
HP 4 Plus	1,384
HP 5L	498
HP 5P	838

Panasonic
Office Automation

KX-P 1150 (9-Pin)	**$128**
KX-P 2023 (24-Pin)	**198**
KX-P 3123 (24-Pin)	**248**
Color Upgrade Kit KX-PCK1T	52

TAPE BACKUPS

Conner 250MB Internal	**$48**
Conner 800MB Internal w/Tape	**133**
Conner 4.0GB SCSI w/Tape	**368**

COLORADO MEMORY SYSTEMS

DJ-35 350MB Internal	**88**
T-1000 800MB Internal	**134**
T-1000 800MB Internal w/tape	**154**
DJ-50 1.4GB Internal	**208**
Tape QIC-80 3M DC2120	**13**
JT-35C Trakker 350MB Ext	148

SOFTWARE

Microsoft Windows 95 Full Copy (w/system)	$90
Microsoft DOS 6.x (with System)	32
Microsoft Office Professional OEM (with System)	208
Microsoft Windows 3.x (with System)	42
Microsoft Windows for Workgroup (with System)	52

VGA CARDS

MGP Card	$10
VGA 256K	24
VGA 512K	32
SVGA 1MB 1024•768 16 BIT	**50**
Cirrus Logic VLB w/1MB	**50**
S3-805 VLB w/1MB	**50**
Trident VLB w/1MB	**50**
Trident PCI w/1MB	**50**

ATI TECHNOLOGIES INC.

Ultra Plus PCI 2MB DRAM	108
WinBoost PCI 1MB DRAM (Mach 64)	**104**
WinBoost VLB 1MB DRAM (Mach 64)	**113**
WinBoost PCI 2MB DRAM (Mach 64)	**140**
WinBoost VLB 2MB DRAM (Mach 64)	**153**
WinTurbo 64 PCI 2MB VRAM (Mach 64)	**218**
WinTurbo 64 VLB 2MB VRAM (Mach 64)	**220**
WinTurbo 64 PCI 4MB VRAM (Mach 64)	**376**
WinTurbo 64 VLB 4MB VRAM (Mach 64)	**380**

DIAMOND

Stealth 24 VLB 1MB (DRAM)	**$62**
Stealth SE PCI 1MB (DRAM)	**80**
Stealth SE VLB 1MB (DRAM)	**78**
Stealth 64 PCI 1MB (DRAM)	**92**
Stealth 64 VLB 1MB (DRAM)	**92**
Stealth 64 PCI 2MB (DRAM)	**118**
Stealth 64 VLB 2MB (DRAM)	**118**
Stealth 64 PCI 2MB (VRAM)	**232**
Stealth 64 VLB 2MB (VRAM)	**198**
Stealth 64 PCI 4MB (VRAM)	**372**
Stealth 64 VLB 4MB (VRAM)	**372**
Viper-Pro PCI 2MB (VRAM)	**330**
Viper-Pro PCI 4MB (VRAM)	**454**
Edge 3D PCI 2MB (DRAM) Retail	**298**
Edge 3D PCI 2MB/4MB (VRAM) Retail	**388 / 518**

MATROX

Millennium PCI 2MB (WRAM) CD Version	278
Millennium PCI 4MB (WRAM) CD Version	438

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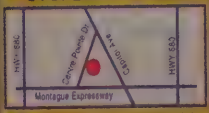

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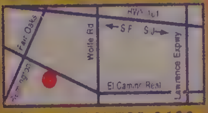

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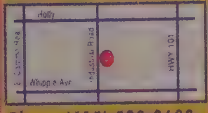

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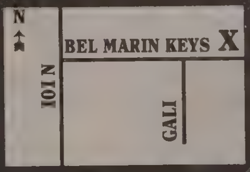

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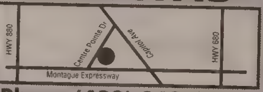

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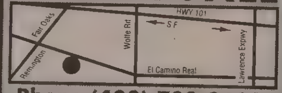

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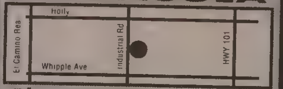

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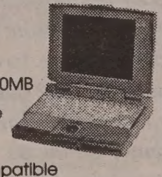

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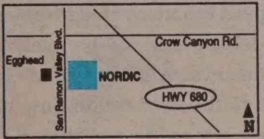

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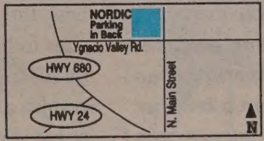

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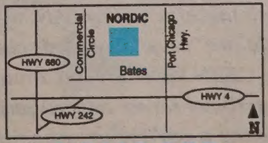

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DVORAK'S LAST COLUMN • BY JOHN C. DVORAK

Garbage In, Garbage Out

Bad Internet Sites Abound

Here's a letter forwarded to me from an OS/2 user:

This morning, I sat down at my OS/2-based WebExplorer browser to surf the SuperBowl site. Funny behavior, though. The browser would connect, but nothing ever arrived. The error message says, "The server was about to send the document, but it closed the connection instead. 'http://www.superbowl.com' has been abandoned." Failed DNS lookups, failed connections, security validation failure, etc., I understand and encounter (too) frequently. I'd never seen this kind of consistent failure.

I checked the name server (using nslookup to query DNS) and discovered that www.superbowl.com mapped to several IP numbers. I tried entering the explicit IP number, e.g., http://204.255.247.101, but that, too, failed in the same way for each of the five addresses. That is, all five servers behave in exactly the same manner.

I kind of remembered a comment on C-Net that Microsoft was involved, so I checked additional DNS data to verify that Microsoft's MSN served the page. I then walked over to the Windows machine and attempted to fetch the SuperBowl page. Lo and behold! It worked!

Both the OS/2 and Windows machines access the Internet by connecting over a LAN to an Ascend Pipeline 50. This means that there exist only minor differences when attempting to access a Web site, including no differences in routing, DNS, etc. The only difference between the access attempts is the Web browser and the supporting operating system.

I even tried accessing the site from Linux, the third machine on my LAN, using the extremely primitive "www" line-mode client provided with the CERN Web server. I thought perhaps the SuperBowl server refused service to a browser lacking a particular capability. However, the MSN-based Web server responded to "www" with the text, just as it should.

Do you suppose Microsoft would be denying access to those using WebExplorer and OS/2? That's the only ready explanation I can come up with. If so, this action by Microsoft would certainly make an interesting story. I wonder if the NFL and NBC know about this little wrinkle in Microsoft's support of the SuperBowl, if in fact Microsoft denies access to WebExplorer users?

Needless to say, I'm quite disappointed that I cannot access the SuperBowl page using the best machine (referring to processor and video, not an operating system bias) in the house.

Curiously, I had managed to access that miserable Super Bowl site the day of the game, hoping to get the exact time of kickoff for the purposes of video recording. While there were timetables and schedules galore—mostly for crappy Web-related events having little to do with the game—nowhere to be found on the entire site was the time of the kickoff. This site epitomized Web flotsam. Is it possible that they were doing you a favor by keeping people away? Maybe.

The thing I've noticed over the last year or so is a proliferation of mediocre unusable Web sites, combined with inconsistent access as cited above. Depending on where you go to access the site you seem to get different privileges. The lowest on the totem pole are America Online users. I have an AOL forum (keyword Dvorak) to promote *Software/Hardtalk*, my radio show, so I surf AOL a lot. Since it has a built-in Web browser, it's easy to find a reference to a Web site and jump to it with the AOL browser without having to disconnect and load Navigator or whatever.

Or so it seems. There are sites that dump the user and the whole AOL system consistently. While the AOL browser is certainly mediocre at best, this happens too many times from specific sites to be a problem that can be solely blamed on AOL. To some extent AOL is like Microsoft—certain people in the user community hate the company. There are entire newsgroup threads devoted to bashing AOL. When the WWW becomes subject to animosities, and when those who use one system or another to gateway in and out of the Web are subject to scrutiny because of the gateway, then the Web is in trouble. It's already begun.

Then there is the issue of mediocre site service combined with mediocre site design. A few weeks ago I tried to access the KQED site to get a schedule for the month's programming. It was unbelievable what a mish-mosh it was. The worst part is that it seems to be modeled after phone mail. (If you want to have the most horrible time of your life go into the real phone mail system at KQED and see what a mess it is.) Anyway, it's an effort to get to the right address for the schedule page; when you do, you seldom get the page delivered. In my experience, it mostly dropped dead, and I gave up on it.

The problem with many Web sites is that the site coordinator is sitting on a T-1 line (1.54Mbps special phone line) at the site, thinking that all is well because things run smoothly on the T-1. This connection is something over 100 times faster than a 14.4Kbps modem. Something that would take nearly two hours to download will come over in less than two minutes. Gee, things look good on the T-1. Meanwhile, the system is choked off at normal speeds.

I can't tell you how many times someone has demonstrated a site over a T-1 for me, trying to trick me into thinking that this is the way it would be in the real world. Heck, T-1 is ten times faster than a bonded (two b channels) ISDN connection. Anyway, I believe sites would work a lot better if there were no T-1 connections to give site coordinators a false sense of reality.

It's dawned on everyone that the Web is here to stay, but we're all beta testing the future when we go on the Web. The current thinking about how things are going to develop is all theory. Content, delivery mechanism, browser technology—it's all up in the air. My advice: Don't get too impatient while it shakes out.

And remember, that Super Bowl site stunk anyway. ■

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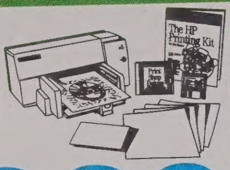
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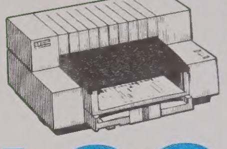

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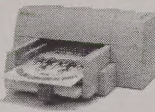

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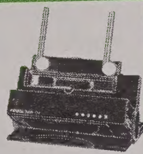

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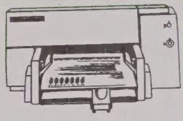

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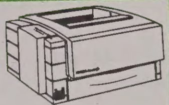

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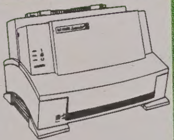

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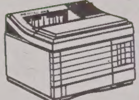

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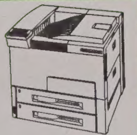

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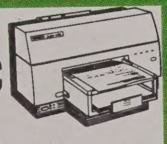

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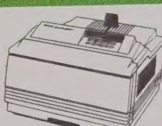

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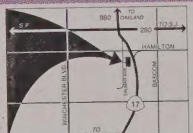
S.F
880
TO OAKLAND
280
TO S.J.
HAMILTON
WINCHESTER BLVD.
SALMAR AVE
BASCOM
17
TO SANTA CRUZ

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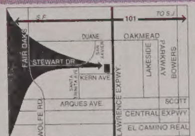
S.F
101
TO S.J.
FAIR OAKS
DUANE
SAN XAVIER
OAKMEAD
STEWART DR
SANTA TRINITA AVE
KERN AVE
LAWRENCE EXPWY.
LAKESIDE
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WOLFE RD
ARQUES AVE
SCOTT
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EL CAMINO REAL

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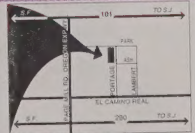
S.F
101
TO S.J.
PAGE MILL RD. OREGON EXPWY.
PARK
KEN
PORTAGE
LAMBERT
EL CAMINO REAL
S.F.
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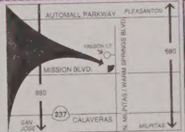
340 Portage Road
(415) 496-6000
(415) 496-6044


AUTOMALL PARKWAY
PLEASANTON
MISSION CT.
N. MILPITAS / WARM SPRINGS BLVD.
680
MISSION BLVD.
880
SAN JOSE
237
CALAVERAS
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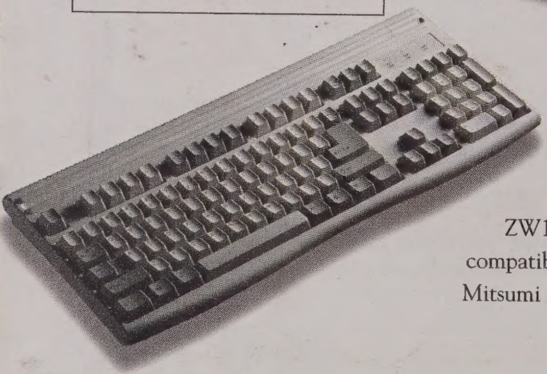

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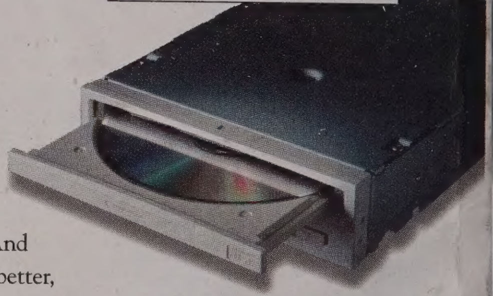

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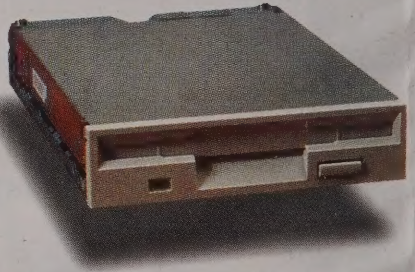

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